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With the affectionate regards of
S. Agnew
Philada May 29th 1858

Lecture 12th.

Diarrhoea. Frequent stools with or without pain. It is now & then accompanied with general fever. Sometimes the stools are Bloody, but commonly not, by a their consistence. In the System there is always one weak part induced directly or Indirectly. Pain & Disease are the offspring of the Morbid Action induced in this weak part. In young people it is the Brain, in old people it is the Breast; hence diseases of the Head are common among Children & Pulmonic complaints among old people; While in the middle aged the Bowels are affected with Morbid action from Himself, hence this Disease appears most commonly in middle aged persons: Albert till the separation between the Venous & Arterial Systems, and the Plethora of the former is established.

This Disease is induced by Causes which act Directly on the Bowels, or, 2d. such as act Indirectly thro' the Medium of the whole System. Like Cholic, it may be produced by Acid Substances taken into the Intestines & Indigestible Aliment; also by Acrid Humors effused into them, as Bile from the a Morbid State of the

Secretion of the Liver. Diarrhoea is also produced by Worms & Pregnancy; the last acts by causing obstructions &c. from pressure. In the Incurable Diarrhoea of Children, the obstinacy is caused by the presence of worms occasioning great ~~Intermittency~~ Irritation. The obstructions of the Mesenteric Glands, & the Lacteals, also co-operate. In many cases Diarrhoea from this Cause continues for 15 or 20 years. I knew an old Gentleman in this City in whom it continued near 20 years, & who lived to near 70.

II. There are Cases of this disease occasioning from great Morbid action in the Bowels, determined from from the System in General.

The Remedies when Plethora is present, as in Case of Pregnancy, are, Bloodletting; also when it occurs during the Struggle between the Venous & Arterial Systems. Dr Sydenham Recommends it in such Cases & urges it with Success in ~~hard~~ obstinate Cases. In our prescriptions for it we should be regulated by the State of the Pulse. —

2d Purges. These are all improper except Rhubarb, this should be used if any occasion Exists, as it excites a Tonic operation afterwards; it is less apt to ~~gripe~~ than any other Purges. —

3d Vomits. Should be used, especially Ipecacuanha; this exerts a Tonic operation, after its Emetic quality has ceased to operate. They act by invigorating the Peristal-

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Motion, & as this disease depends very much on the increased Peristaltic Motion, they produce a very beneficial effect in Inverting it, & also by a determination to the Skin. 4th Opiates are proper, they should be given in the day & at Night. I have used with advantage 2 grains of Ipecac. 2 grs. of Rhen-barb, & half a grain of Opium, to be given 3 times a day. 5th Certain Astringent Substances are to be used, as infusion of White oak Bark, an Infusion of Oak galls, Persimmon Juice, Alum, Tinct. of Gum Kino &c. And also the Juice of Tormentil; any of these may be used according to Circumstances. A very excellent Remedy in Diarrhoea is made by Boiling 16 ps. of powd. oak galls in a pint of water down to a half a pint, then add half a pint of Brandy, & enough Loaf Sugar to make it into a Syrup, add a little Cinna-mon to make it agreeable; A table Spoonful to be given three times a day. I have known Sugar & Brandy answer very well without the Galls. Besides these astringents certain Aromatic Substances may be used as Nutmegs Allspice &c. Also Stimulating Substances, as Balsame Capivi. Bitters & Spirits of Turpentine have been used with great advantage in obstinate cases of Diarrhoea. As the disease frequently proceeds from acrid Substances in the Intestines, certain demulcents may be used with advantage, as Suet, Mullen Leaf Tea, Hartshorn Shavings.

mucilage of Gum Arabic, Milk Broth or Jelly. Starch lat-
ter Remedies may be used in form of a Glister, when Opium
may be added with advantage. Certain diluting drinks may
also be used with advantage, as Mallows, Balm Tea, Pepper
mint Tea, Camomile Tea, have all been used with very good effect.
I knew an old Gentleman who cured the disease by drinking
3 pints of Port & water; this by its quantity destroyed
the acrimony of the Bowels. Blisters have been very useful
in this complaint, they should be applied alternately to the
wrists & ankles, & when they heal on one to be excited afresh
on another, & should be continued a Month or 6 weeks.
Where they do not cure, they almost always suspend the
disease. Diet in this disease should be carefully attended
to; when the Patient has Green Stools, an animal diet
should be used to prevent the ~~of~~ acrid tendency. When
this is not the case a Vegetable diet should be used, &
this has frequently cured. Some use heap of Strawberries
Whortleberries &c producing relief in Diarrhoea. Exercise
is of great consequence in this disease especially on horse-
back: the warm Bath is useful, also the Cold Bath. Sea
Voyages have often cured the disease by exciting a Retro-
grade Peristaltic Motion; it should be recommended in
all Chronic Diarrhoeas; a Salivation should be excited.
In some cases the Disease has been kept from the Water

the Patient was having foreign Impregnation, or by the effluvia from Privies. Dr Linn has known a case from this last Cause. In many cases it has been cured by an attack of pleurisy; here morbid action appeared to be translated from the Muscular Fibres of the Intestines to the Arterial System generally. Diarrhoea is a Symptom of almost every fever we meet with.

Costiveness. Is a Relative Term. There is a great difference in the frequency of Stools of different persons, Some have one or 2, & sometimes 3 daily; while others have not more than 2 or 3 a week, & are yet healthy. Disease frequently comes on from want of sufficient Evacuations from the Bowels, here Costiveness is the Remote cause of debilitating fever & produces debility.

Costiveness generally proceeds from certain articles of Diet & Drinks, especially Cheese & Vinegars; Cheese produces it in many people. 2d. A change from a full to a low Diet, & vice versa, from Vegetable to Animal & from Animal to Vegetable food. 3d. . . . . .

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4th. Exposed situation of Privies; this operates particularly on females. I heard of a young Lady who died from this Cause in South Carolina. The Necessary was in

such a Situation as to be exposed to the view of a number of Gentlemen in the Parlor. She died a Martyr to female delicacy. 5th Negligence to the Calls of Nature; this operates in persons of intense Study, great application to business &c. 6th Certain Exercises appear to produce Costiveness as Riding on horseback, Sailing &c the latter in a remarkable degree. I knew a Captain who Sailed from London to Madeira without a Stool! - 7th Certain obstructing matter in the Alimentary Canal, as Sour, Candy-formation Tumors, Indurated Faeces, Fish bone, Nails &c. (of each of which Dr R. mentioned an instance) Indurated Piles is a frequent Costive Cause, either External or Internal, but most commonly their Stimulus is within the Rectum. Scirrous tumors also cause this disease.

The first Remedy is Rising Early in the Morning. 2d Going to Stool at a certain time every morning, or to the Necessary to make attempts; this is of great consequence. 3d The use of a Laxative diet, as Indian Meal either in Mush or in Bread with flour, Roasted apples answer very well & form a very agreeable drink. 4th The habitual use of certain Purging Medicines, as Picra Picra, Cream of Tartar, Salts, Rhubarb, Castor oil &c. But the Bitter Aloes Pill & Aloes should never be used; as the Aloes disposes to Piles & the other to Palsy, which I have known

it produces in 3 Instances. 5th. The use of a Close Stool Chair in a warm Room, this prevents the sedative effects of Cold air in preventing a Stool as it now & then does. 6th. Avoiding all the occasional Causes of it mentioned. The Necessary Should be in a private place, & hardened fæces Should be extracted with a Scoop if in the Rectum. The Rectum Should be searched in Cases of obstinate Costiveness. Glysters used to soften hardened fæces, All extraneous Matter Should be extracted. I have known a Case of obstinate Costiveness Cured in a Child, by the discharge of a quantity of Sow from the Anus, which a Nurse had thrust into its mouth to prevent its Crying; a Smart purge brought away a quantity of Sow & the Child recovered. If the Disease proceed from Cancerous Tumours, they must be extracted by Ligature; I have never known any ill consequences result from this operation; but alarming hemorrhage frequently succeeds their extirpation by means of a Knife.

We come next Gentlemen, to an important part of our Course; The Diseases of the Mind. And first of

Hypochondriasis. The Causes of this dis-ease are the same which produce Dyspepsia, with the addition that it is much oftener brought on by distress of Mind. Grief from Debt is a frequent Cause, & also from a Sense of Guilt, this makes it act with accumulated force. It proceeds sometimes from Immaginary Grief. The worst cases are most commonly produced from distress at im-maginary Evils. Most cases of it are accompanied with a Diarrhoea. It is also produced by Causes which act on the Body, as Fluor Albus, Ardent Spirits &c. Re-pelled Eruptions. As in Dyspepsia, a Vomiting generally attends. . . . .

Hypochondriasis, however, differs from Dyspepsia, 1st in . . . . . .

2d It may be distinguished from Dyspepsia from the great apprehension of evil that occurs. 3d . . . . . .

4th It may be distinguished from Dyspepsia by its occurring without any of the Symptoms of Dyspepsia. 5th Dyspepsia is most common in early life, Hypochondriasis.

seldom attacks till the decline of life: This disease appears men more than women; it is generally attended with Diarrhoea, Dyspepsia with Costiveness: It is increased by cold water & Cooled Drinks, Dyspepsia by the Reverse: In this disease, the Blood vessels in the brain are affected, In dyspepsia this is not the case; no Sympathy then takes place.

Many disputes have arisen about Hysteria & the propriety of considering Hysteria & Hypochondriasis as one disease; they are characterized by the same symptoms occasionally the less in force, this is the only difference which exists between them. The former (Hysteria) is to the latter what Typhus fever is to Typhoid: They are different in the degree of morbid action. Dyspepsia appears to be the Link which connects them together. Hysteria sometimes turns on to Hypochondriasis. They depend on the difference in Constitution in Patients; but in some cases both appear combined & here they are more difficult to cure; just as Typhoid is more troublesome than Inflamatory or Typhus alone.

The Remedies for this Disease divide themselves into 2 Classes. 1st Such as act directly on the body; Once 2d Such as act Indirectly, thro' the medium of the Mind.

The Remedies which act directly, are first. The Warm Bath. this acts by toning the Excitability of the body & converting it into Excitement. 2d. Warm Drinks Cold drinks are highly improper; they produce pain in the Stomach, which, with me is one of the first Sensations Indicative of Hypochondriacism; Warm drinks, or Tea Coffee &c should be used. 3d. Opium. This is a noble Remedy, & affords principal Consolation to Patients with Hypo. Its influence is not confined to the Body, It acts powerfully on the Passions & mind, hence it deserves the name "Medicina Mentis." Ardent Spirits have been used, they afford quick relief, but the Remedy is worse than the disease. If the Patient absurdly objects to Opium, & the Physician bigely to Ardent Spirits 5th Madeira or Sherry Wine may be used. The Wisdom of the Wise Man bear Witness of its propriety. "Give Wine unto him that hath an heavy heart that he may forget his sorrow &c". Music should not be neglected; the Tunes at first should be Plaintive, & afterwards become more lively. A Sprightly tune would do mischief at first. A Salivation should be excited if these Remedies fail. Here our principal dependence should be placed on Mercury, it Translates ~~[illegible]~~ Excitement to the mouth. Exercise —

too, is of immense Consequence, relying on horseback — omnibus last. When the Disease has been caused by Cutaneous Eruption repelled, as the Itch, then should the repeated if possible; I knew a case cured by the Itch, — whether the friction of scratching could have had any effect or whether it acted merely by creating a determination of morbid action to the Skin, I know not, it may have acted probably in both ways. 10th. The Cold Bath should now be tried after the hot Bath. Is Bleeding proper in this disease? Not after Morbid action is so weakes to yield to the action of Stimuli; but now & then it is proper, when the Pulse is full & Firm, it is paroxysm should be tried. Dr Bond first taught me the use of it in such Cases. He used it in a Patient, a Quaker Preacher, who Conceived he was possessed by a Devil. Dr Bond persuaded him to sit down & be bled, he consented, & the Instant the Vein was opened, he exclaimed he was better, for he felt the Devil escape from his Arm, & he soon recovered. I have used it since in several cases with success.

The Dyspepsia accompanying in this Disease should not be neglected. A little Magnesia, Alkaline Salts Bitters, Animal food taken 3 or 4 times a day, with as little drink as possible. Eggs, Oysters, Fish &c.

are to be used to relieve it.

II. The next are such Remedies as act thro the medium of the Mind; previous however, to entering on this subject I will mention more minutely the Symptoms of the Disease as they appear in the Mind.

The Hypochondriac Patient labours under false judgment, especially with regard to himself & his disease; he suspects he is afflicted with all the diseases of Nosology especially Polypus, Consumption, Stone, Gravel, Venereal, disease, if he has ever had it, dropsy &c. &c. and feels every pain & every ache, characteristic of these different Diseases. Sometimes he conceits he has a living animal within him. Capt. Friend would not be persuaded but that a wolf was in his Liver! They further are so far affected in many cases as to poison themselves dead. 2d. Sometimes this false judgment extends to the Physician, hence the frequency of their discarding their Physicians, & seeking new ones, always flattering the vanity unbounded Confidence in the last, and deprecating the merit of the former; they try every Physician in the Country. 3d. They have sometimes a false judgment of Remedies; hence they frequent Mineral Springs, & seek their remaining health by Quack medicines. Sometimes they poison themselves

II.

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other Animals, as Cats, Dogs, Foxes &c.

I am at a loss under what to place False Judgment, whether as a Symptom of Melancholy or Hypo=Hypo. Hypo frequently runs into the former, as Hysteria does into Hypo.

Despair is another Symptom of the Disease: a birth bodie. How great must that misery be in which Life is abhorred & death wished for! Even in the most excruciating Torture of the Stone, the most inveterate Cancer, & in the most advanced Stage of Consumption, patients wish to live. — But here they anxiously wish for Death as the atonement of their Sins & the end of their Misery. Dr Johnson has Emphatically called Despair, "the utmost Exacerbation of human Misery." I knew a Clergyman who was 15 years & an half under its influence in this Disease, during all this time he was in the severest Torment, as he assured me afterwards: according to his own description he suffered the Pain & Torture of the Damned. His sleep was a kind of distressing Slumber, & while he was awake, he was constantly employed in raising his hands from his knees to his head, & back again rapidly & exclaiming, "Oh I am Damned, Damned, past Redemption, Damned Everlastingly! Patients in this State of Anguish hold life in abhorrence, & anticipate the Lonely approach

of Death, by the Halter, Pistol, Razor, Liquid Laudanum &c. Let then this awful Calamity excite our tendrest Sym-pathy, & do that Justice to humanity to endeavour to relieve their Complaints, & tho' they proceed from Imaginary causes, treat them as they really are, as serious as Real.

First, then we should prescribe Remedies for a Real, not an Imaginary Disease. Here then Gentlemen you must be Grave, & follow your Patient with attention thro' his History of his Symptoms. Some Patients love to be told they are worse than they really are. Few will believe you if you say they are not. Take great care never, either in the family or in any Company whatever, to hint that you think your Patients Complaints trifling: They take uncommon pains to find out your real opinion of them. Dr Pohner, late of this City was discarded & never afterwards employed by a Patient, for saying he that his disease — Imaginary. I knew one Case where a Patient believed himself Dead. He employed several Physicians, none of whom would Coincide with him in his opinion, he discarded — them all. One he found at length who assured him he was dead, & proposed to find out the nature of his extraordina-ry Disease by Dissecting him: The Patient alarmed at this was cured of his Complaint, but always gave the Quack more Credit than any of his Physicians, since he alone

could cure him!! Count..... Conceited himself a Plant, & insisted on being placed in his Garden & watered regularly as the other Plants: he at length thot himself a Man again, ~~& would~~ & but Dead, & of course would Eat nor drink nothing; his attendants consented at length to think him Dead, Habited two Men as his Grand Father & Marshall Turenne: These venerable Shades Invited him to Dine, he accepted, & was led into the Cellar of his Palace & Eat & Drank very heartily; the Wine soon convinced him of his mistake: Once this was repeated whenever he resumed his notion, as he now & then did. Turner Conceited (his disease came on in consequence of repelled Eruption) that he had a Worm within him he would drink water for fear of drowning it: his Physician persuaded him one day his Worm was on fire; & he eagerly Swallowed a large portion of water. Pd. Amusement, is a Remedy of great consequence in this Complaint; both Body & Mind should be used, such as without fatigue so as to keep both Constantly employed, Business answers best, Building, Study or Political Engagements. During the Revolutionary Contest many Hypochondriac Patients were Cured. Those who took an active part never were affected; but some were who did not be engage in either Party. In South Carolina

it was called the "Tory Gout."!!

It is most apt to occur in the Wealthy from Indolence, especially the holders of Entailed Estates. Man was made to be active. Those Sources of Happiness of Poets The Purling Brooks, Rural Shades, Delightful Retirement, & Solitude, never existed but in the Brain of Mad Poets, & Love Sick Boys & Girls. Activity must be combined with Happiness.

3d. In this disease it is of consequence to excite some active Stimulating Passion. This has frequently cured, at, fits of Anger especially. There is a Story told of a Student in a German University, afflicted with this disease who Conceited he was Dead; he of course wished to be Buried & ordered the College Bell to be tolled Toll. The Bell ringer knowing the Cause, did not Toll it as usual for Dead People; this so enraged the Youth that he Started up from to the Bell Room, Kicked the Man out & Seized the Rope continuing to toll the bell for a long time. The exercise so fatigued him & aided by the Passion thus exerted to effect a Cure. A similar Case is related of a Gentleman (by Mr. Whitfield) who can be cured at any time of a fit of Hypochondriasis, to which he is subject, by provoking him to a Controversy on a Religious Topic.

4th. Where Debt is the Cause of it, we may rely

on the Honesty of our Patients; it never comes on in the Rogues. A person who was immensely in Debt being asked by a Friend how he could sleep so sound, replied, "You should wonder rather how my Creditors could sleep so sound, I have nothing to distress me!" This man would never be affected with Hypo. We should always when this is the Cause of the Complaint, endeavour to soothe our Patient, & prevail on him to take the benefit of those mild Laws provided by our Legislature for the Relief of Bankrupts.

Lecture 63d

Cure of Hypochondriasis Continued.

If the disease proceed from Debt & an inability to discharge the debt, the reference to the Laws must be recommended: If from grief, we should endeavour to soothe with the Comforts of Religion, & advise them to seek Consolation from this Source, & assure them of the extent of divine mercy. As Patients will Listen with more willingness to such a discourse from a Friend or

or even from an Old Woman than a Minister, Physi=cian should turn . . . . . & direct those gloomy Ideas from his mind. In general Hypochondriasis from this Source, is attended, if not caused by an Idea of having committed the unpardonable Sin, & that he is out of all hope of Redemption: Here we may observe to him that no two Divines agree at present, as to the nature of this Unpar=donable Sin, & very few have ever defined it; but they generally agree that no person has ever committed it, who has Conscience enough left to be afraid of having committed it: On the second subject . . . . . not even the Smoking Incense of Human Sacrifice can make a more favorable im=pression on the Great Father & Redeemer, than Repentance If this opinion be not Eradicated from his mind, the dis=ease will, in all probability terminate in Madness, or an end to his unfortunate Life.

If the Disease originate in unfortunate Love, - the Patient will (as in debt) seldom confess it to the Physi=cian. but the Secret must be extorted from him either directly or Indirectly, & the Remedies adapted applied.

A 7th Remedy in Hypo. is to produce a new operation of Ideas. here the Patient must be taken away from his sick bed & Room, & everything which reminds

hint of the bad Idea of his Disease must be carefully removed: his Company & Diet should of course be changed; his Linnen as frequent as possible. It is surprising the influence that dress has on the mind. A long beard, & an unkempt or uncombed head should always be avoided obviated. I formerly mentioned a case of a Gentleman who cured a fit of Low Spirits by changing his Clothes. 8th Matrimony is a Remedy not to be dispensed with; the disease seldom occurs in Married life; the substantial pursuits necessary in families preventing the remote causes of the disease. 9th Travelling should be recommended, it is very useful in this State of the Nervous System; it acts both on the body & mind; it should be to a warm Climate. It produces a constant new succession of Ideas, which displace the old ones: & new Exercise here in order to destroy old associations. The Patient should be deprived of every thing that he leaves home which could remind him of his Disease; a new horse, a new Carriage & a new companion should be procured; even his Pen Knife & watch should be taken from his Pocket. Traveling acts in another way, it places the Hypochondriac among Strangers, who are not Interested in hearing his Complaints, & to whom he cannot complain with so much freedom. Dr Johnson said to his friend Boswell, "nothing pleases —

Melancholy more than complaining!" 'tis very true and should be avoided. — Committing Prose to Memory has been recommended; it acts by translating ~~[illegible]~~ excitement ~~from~~ to that part of the Brain which is the Seat of the Memory. Burton recommends the Scriptures. I have heretofore hinted how much thought & conversation influence the Passions; I am inclined to think the fatal event of Cancer & other incurable diseases are much accelerated by constant attention & thought on the seat of the disease. In Hypochondriacs, "Be not Idle nor Solitary says Mr Burton. And Dr Johnson who was highly so himself, inspired this advice by a commentary on it. "If you are Idle, be not Solitary." And if you are Solitary be not Idle. The great General Spinola, being told of the Death of a friend, asked the messenger, of what did he die? He replied having nothing to do. "Enough to kill a General" said the great man.

This Disease is most common in healthy Countries from a Luxury of the Inhabitants; hence it is more common in Europe than in the United States.

I have only to add, that when a disposition to Suicide is Suspected, the Patient should be narrowly watched, & carefully deprived of every means of perpetrating this horrid deed. Opium has been found an excellent —

The Stomach & Liver when inflamed give no pain; the Intestines only when the Peritoneal coat is inflamed.

The Stomach, Liver, & Spleen are the out posts of the mind. I have placed the Spleen powerful. After Death from Mania, the Liver, Spleen & Bowels have been found diseased. The Spleen is most affected in diseases of the mind, hence they are called Splenetic. The Centres of Madness do not exist in those parts. I prove that Hepatitis, Gall stone, obstructions, & enormous size of those parts may exist, & yet produce no disease of the mind. ——— There can be no Madness from Impression unless there is morbid action in the Brain.

A 3d. means of affecting the Brain, I believe to be the Thyroid Gland. I infer this from its situation, size, & Largeness in Women. In Derbyshire in England such people as are Maniacal, have disease in this Gland. ——— The Thyroid Gland is a Back Gate for the Blood of the Brain. I infer this from its size in the Lyon, to assist him in Roaring. I mentioned 2 Clergymen who Expired after long Exertion of the Lungs in lengthy Speeches, probably from the Thyroid Gland not being large enough to contain a sufficient quantity of Blood.

remedy in that state of the Disease where this occurs. I have heard of a Case where a bottle of Wine cured it entirely (Case related) The Celebrated Mrs Bellamy was cured of her intention of drowning herself, by the Cries of an Infant in distress, near the Bridge of the James where she was going to jump into the River.

Mania.

Dr Cullen has divided madness into General & Partial: the former is when the mind is universally Deranged; the latter when Derangement is confined to its faculties; The Partial he calls "Melancholia." The Latter General, "Insania Universalis". Before I proceed particularly of the Maniacal State of Fever, I will deliver a few Recapitulatory Remarks on the mental Faculties & Appetations.

The Faculties are, Understanding, Memory, Imagination, Will, Passions, & Moral Powers. The Operations are, Perception, Association, Judgment & Reason, also a few subjoined, as Volition, Attention

. . . . . (See Physiology of the Mind) These mental functions have very properly been called, Internal Senses, in distinction to the External; but they are produced by impressions made on the External Senses.

I believe the Brain acts as mechanically as the Bowels from the action of a Purge, & has no Vital principal to protect itself &c &c.

The Bowels & Thyroid Gland protect the Brain in Hysteria from Madness, Women the Globus Hystericus.

Of the cases of Dissection of the Brain after Madness Mr Prevell tells us that there was no difference from those who died of Apoplexy.

No Idea ever existed which was not admitted thro' the Avenue of the Senses. The Schoolmen remark finally, "Nihil est in Intellectu Nisi . . . prius est in Sensu". It is not necessary for the mind to take place in the Order set down. O. A. J. R. V. — Volition is very often produced after either of the others, thus, immediately after Perception a person may Will; After apprehension a person may Will, or, not untill Judgment is passed, or, if he phlegmatic not untill he has Reasoned: Again Recollection may take place after Perception. Apostr. J. & R.

I must Request you here Gentlemen to remember the opinion I advanced, that no Idea is formed without motion of some kind in the Substance of the brain; & that every Idea is attended with a specific motion.

I now proceed to the Disease of Mania.

I have Recoiled from this subject, Colouds & darkness hung over it; but I thank God they are removed, & I now enter upon it with uncommon pleasure, as I hope to bring before you such facts & Arguments as will lead to a Theory by which we shall be as successful in our treatment of it as in common fever: We shall find here the same unity of the remote & proximate causes of the Disease as in fever; & the same unity of principle concerning the operations of Medicines.

I was formerly taught that this disease was seated in the Mind: this opinion excluded all enquiry into the Proximate cause, the mind having always been a "No-li me tangere". Dr Cullen taught me to consider it a disease of the Nervous System. In this all the Physicians of the present day agree.

Having in vain attempted a cure of the disease by these theories, I was led to reject them, both, from a Conception that no theory of ~~the~~ a disease can be true unless it leads to a uniformly successful treatment of that disease. After many painful & Laborious Enquiries, I have at length become satisfied that that the Disease is originally seated in the Bloodvessels, especially those of the brain, that it is a morbid action in the Brain; sometimes called Inflammation; the same as it appears in the Viscera, the same as in the Lungs, & other parts of the body.

To prove this, let us attend to the usual Symptoms of morbid action here & compare them to such as occur in other parts, & to their effects on the body after Death. The first symptom of Disease in Mania is, a sense of pain & fullness in the Forehead uniformly occurring in the forming state of the disease. This did not escape Shakespear in his Tragedy of King Lear, he makes him frequently

put his hand to his head Expressing Pain. — 2d I infer Mania to be a Disease of the Arterial System from the Pulse, which is full Quick & Tense, to this I seldom have Known an exception. From the uniformity of its occurence, I apprehend that one of the Insurgents during the Western Expedition, (as it is called) who was sentenced to die, had this Disease, & that it was not feigned as was supposed from fear of death: his Execution was postponed & at length remitted; his Pulse beat 20 strokes more quicker in a Minute than his companions, who were sentenced alike to die. Public resentment finaly subsided, & the President of the U. S. (Mr. Adams) Pardoned him. 3d I infer it from wakefulness, a very common symptom, in fever, & one which occurs in this Disease; but the same remark applies equally to Pulmonary Consumption. 4th. From a White Tongue, in no disease is there a more universally Febrile appearance of the Tongue. It appears that a dry tongue occurs in all cases where there is an absence of excitement in the Muscles. 5th. I infer it from its alternating with febrile diseases. 6th. Morbid action discovers it self in the Blood; in some cases the blood is Sizy. But in some morbid action goes beyond the degree necessary to produce Sizy Blood.

In some the Serum is yellow, & in some it appears in form of Lotura Carnium. Lieutaud mentions 2 Cases where the Brain on dissection appeared of a yellow colour This certainly indicated highly morbid action, sufficient to cause this yellow serum supposed to tinge the Brain.

7th I prove Madness to be seated in the Bloodvessels from its being induced by the same causes that produce other diseases of the Brain, which are States of Fever, as the Apoplectic, the Hydrocephalic &c. 8th I infer from its appearing at the Period of Life when the System is most liable to fevers; this fact will be shortly mentioned — 9th I infer it from its attacking certain Brute Animals where we cannot suppose its seat to be the Mind, as Horses, Hogs, Dogs &c. Nor can we with propriety consider it in them a disease of the Nervous System.

10th I infer that Madness is ~~[illegible]~~ affection of Morbid Action in the Bloodvessels of the Brain from its being Cured by the same Remedies that cure Morbid action in other parts, these will be mentioned hereafter.

11th I infer it from its alternating with other diseases evidently seated in the bloodvessels, as Consumption Rheumatism, Dropsy, Intermittent & Remittent fevers, — Puerperal fevers &c. 12th I infer it from all the varieties of Pulse which occur in Madness being the same that

that occurs in inflamatory fevers in General, as Synochus Synocha &c. 13th. From the temporary suspension of Mania produced by the compression of the Carotid arteries, the same as in Apoplexy. Dr Parsy of Bath relieved Mania in this way: It could only have acted by lessening the quantity of blood going to the head. 14th. I infer it from no marks of Inflamation occuring in the Brain in some Cases of Mania, which have been cured by abscesses in other parts of the body: here is an Instance of Revulsion of morbid excitement from the Brain to the part affected. 15th I infer it from its being accompanied with Remissions & Intermissions as in other parts of the body fever. What are called Lucid Intervals, are merely Remissions, and are as Intermissions to other Diseases. 16th I infer it from sweats which occur in Mania as in other fevers; a case occured in the City hospital a few years ago (Abel Evans) whose Cell was filled with a sweat in the morning similar cases every now & then occur. 17th. I infer it from the symptoms of fever which occur, as Preternatural heat, Coldness, Costiveness, Increased, Involuntary Stools. 18th. I infer it from its many times becoming Epidemic; Instances of which are related by Mr Webster; one in England in 1355 and 1373, in France & Italy in 1374. In Countries it prevailed Chiefly among Poor people; but

After Chronic Madness, there is a hardness & atrophy of the Brain, similar to Scherroder; in this case there is great weight.

There is sometimes a preternatural softness of the Brain & in some a Preternatural enlargement of the Bones of the head or from Rheumatism &c.

Madness in the Phrenitis, what Pulmonary Consumption is . . . . . .

But facts in support of this opinion are to be found in Antient History. Lucian & Seneca mention that a violent fever prevailed at Adeira, which was cured or ended in Death on the 7th Day. It yielded to Bleeding Sweating &c. But the most extraordinary circumstance relative to this Disease was, that Patients were opposed with a strange Delirium. They ran about the streets repeating with great vehemence from the Andromeda of Euripides, a new Tragedy much admired, "Oh Love, thou Tyrant both of Gods & Men"!! This lasted till Winter Commence. It was very properly accounted for by Euripides; he supposes the Reason of it to be the fine Acting of Archillaus, who performed this Tragedy in Midsummer when the weather was very hot: The Numbers who crowded to the Theatre were made Sick by the Excessive heat of the weather, and the Tragedy of Andromacha ran in their Imagination.

Lastly, I infer it from the appearance of the Brain, being such as results from Inflamation in other parts of the Body, & which plainly indicate Morbid action to have preceeded: There are, Effusion, Induration &c. The Effusion are sometimes of Pus, of Serum, & of Blood. The hard Texture of the Brain of Maniacs, is a true Schirrus. & what is called the Durum, Sicum &c. modifications of the Schirrous appearance. In all my researches, I have found only R

The Bloodvessels are to the Glandular body what the Sun is to our Globe; they impart vigor, Health &c.

There are Mad people whose Stomachs are filled with nothing, they retain nothing.

The Causes which produce Madness are, 1st Malconformation. — A Case where Madness did not occur till 22 years after a fall from a horse. Pain Gout — Rheumatism, Inordinate Venereal Desires; Onanism, I have met with Cases from this Cause; Repelled Eruption, heat & Cold: Opium, Ambani, Cicuta; decayed Teeth; Irritating Substances, as Shot in a persons foot; — Fumes of Lead. Epilepsy, Apoplexy, & St. Vitus's Dance. I have met with 2 cases from the Cause the last year.

I have seen where the Brain did not shew signs of Disease; and then two cases were such as Marked action Frequented Inflamation. One is related by Dr Stark & one by Stahl in the . . . . At first I was unable to account for this but meeting with Cases of yellow fever in 1793 in which the Brain appeared to be evidently diseased by Coma Delirium &c. but upon Dissection the Brains of the Patients were found quite natural. These Cases have Taught me that in some ~~Cases of Inflammation~~ Instances of Morbid affection of the Brain, there are no signs of Inflamation to be expected; there is, as it were, a retrocession of all signs of Disease. Similar Cases occured in the Hospital in 1795, when Patients died with Symptoms of Pain & congestion in the head, & yet no marks of disease were found in the Brain after death.

The Proximate Cause of the Disease appears to be Morbid action generally in form of Inflamation of the brain. It is a true Chronic Phrenitis. The Chronic State of an acute Disease, as Pneumonitis is of Pneumony: And here as in Pulmonary Consumption, there is a deficiency of excitement in the Brain. I have met with some Cases in which the Liver was affected; this was the Case with . . . . . at the Pensylvania Hospital. This is most common in

those Cases of Mania which proceed from Intemperate use of Ardent Spirits. It is well known that this cause will produce an affection of the Liver: this is attributed chiefly to an increased Circulation. It has heretofore been considered a Characteristic Symptom of this disease, that it is unaccompanied by fever. It is strange that Celsus even, should have fallen into this Error, & say it is "Semper sine Febre!" So far from this, it is Semper cum Febre.

This Disease differs in the degree of derangement present. By Derangement, I mean any departure in the Mind, its Faculties or Operations, from the Natural Order. This differs first, as to the degree, Nature, or Number of Faculties affected; as the Memory, Imagination &c. 2d As to the extent the Derangement proceeds in any or all of them.

I. First, where Madness affects the Understanding. There is an Error, first, with respect to the Person affected. E.g. When a Man supposes himself a Beast or any other Animal.

2d When there is a Derangement on some one subject, foreign to himself: This Dr Cullen calls Melancholia Partialis.

3d When a Derangement of the Understanding is

in on all subjects. This is Dr Cullens Melancholia Universalis.

Mania in the Understanding differs, 1st in that it affects Perception only. But the Disease may be of the external or Internal Senses, thus in Jaundice the Person mistakes the Colour of all objects near him. Sophocles well describes it when it proceeds from an Internal Sense in the Case of Ajax when he Mistakes some Shepherds for Achilles, & Kills them under that Supposition. Again Menelaus mistakes a large Ram for Ulisses. Many disorder discover this in the Delirium of a fever mistaking Physicians for friends or Relations; & Sometimes mistaking friends for Enemies. When perturbated by Guilt, they often suppose themselves Haunted by Evil Spirits. Persons labouring under false Perception, frequently mistake friends for such as they have some Idea Animosity against: Arnold calls this Idial Madness: Cricktson more properly, diseased perception. 2d This is frequently a good perception with false aprehension of Ideas, & a false aprehension of such Ideas as really preexist in the Brain. Thus Ajax would never have supposed a Shepherd Achilles, nor would Menelaus have mistaken a Ram for Ulisses, unless the Idea of Ulisses & Achilles had previously

existing in the minds, so that exceed to false perception they had a strong Association of Ideas. These too are explained Dreams; they proceed from an association of Ideas already existing in the Brain without order: we never dream of objects we have never had an Idea of in the waking State. 3d False Judgment from just Perception, this is more rare if General perception is not perfect when Judgment is impaired. 4th There is sometimes false Reasoning from true propositions; as when a madman has a just perception of his friends & Relations, but reasons unfeelingly in expecting immense wealth from them. Locke says this is false Reasoning from true propositions and in contradistinction to this there are some Madmen, who Reason justly from false propositions, or when they suppose they are Glass, they take the proper steps to prevent the injury to their brittle bodies. Many people he says are deranged in some certain subjects &c.

II. The MEMORY is sometimes affected when the Understanding & all the other faculties are in good health. This Deficiency of Memory occurs in many Diseases, and in old People.

III. Derangement is sometimes seated in the WILL 2d The Will is sometimes Paralytic, such are said to have no wills of their own. Instances of it are seen in public

This Phase called Nanalgia, the same as Hepatalgia to Hepatitis.

and private Life; it is strictly true. The Will here is unable from Paralysis to produce corresponding Actions; Thus a Gentleman assured me he was Conscious of saying something he ought not, & yet he was unable to avoid it.

IV. Derangement is sometimes seated in the Moral Faculties. The Disease is here discovered by the want of Moral Impressions, as discovered in Conversation & Actions.

V. This Disease is sometimes seated in the Passions where it is discovered by their Morbid Excess or Deficiency, or in their Inverted direction.

VI. And Lastly, There is in some cases a total absence of Understanding, Will, Memory, Imagination, Passions, & Moral Faculties. This deplorable condition constitutes Fatuity or Idiotism.

From this Short view, Gentlemen of the diseases of the Mind in its morbid State, you see how necessary it is to have a Consideration of the Mind included in a Course of Physiology, & how Incomplete every System must be which does not include it.

On What Specific action, or to What Degree & part of the Brain do these different degrees & Modifications of Morbid action depend? Time & Research no doubt will furnish an Answer. I hinted formerly that

that each Faculty had its precise Seat in the Brain, and that the proper Operations, depend on a certain definite Motion in those parts: Now I suppose these different States & forms of Derangement to depend on a greater or lesser degree of Morbid Action in these different parts of the Brain which are the Seats of the above named Faculties.

Lecture 6th

We proceed next to speak of the remote & Exciting Causes of Mania. These may be divided into such as act Directly on the Body, & such as act Indirectly on the Body thro' the medium of the Mind.

Under the 1st head we may notice first, — Malconformation of the Brain or Cranium. 2d Local disorders of the Brain, or parts connected with it by original or acquired Sympathy. 3d Certain diseases which affect the Whole body, & occasionally ~~effect~~ produce Morbid Action in the Bloodvessels of the Brain as Gout, Colic, Pulmonary Consumption &c. 4th Extreme warm or cold weather. 5th Unusual or violent Exercise.

6th Great Pain. 7th Suppression of certain customa=ry evacuations, as the Lochia, Menses, Piles & old Erup=tions on the Skin. 8th Inanition from Evacuations Hemorrhages; defect of usual Stimuli or other Causes, - this is probably the Cause of Mania that occurs after Parturition. 9th Excess in Venery. 10th Certain Stim=ulent Substances which act on the Brain, as Ardent Spi=rits, Opium, Henbane, Nightshade, Hemlock, Stramoni=um. 11th Translation of the Disease from the Skin to the Brain as in Erysipelas. I have met with Cases in point in many Authorities. 12th Certain foreign bodies introduced into the body. I knew a Case where Shot lodg=ed in the Foot of a Schoolboy produced Mania when he became a Man. 13th The Remote Causes of other Epi=demic Fevers. Webster relates many Instances of its be=coming Epidemic. Dr Gillespie informed me that of 100 Soldiers sick under his care in Georgia in the year 1796. 50 Recovered with Symptoms of Mania. 14th — The Transfusion of Blood from one Animal to another. This practice has been tried in order to prolong Life, & prevent the Disease of old Age. Dionis says that all the Animals on which this experiment were made, died after shewing evident Marks of Madness. The Exper=iment was a Vain one, & much to shew the Theories of

of the day attributed all the Changes of the System to an alteration of the fluids, & Death to their unfitness to support Life: But we now know that the Blood in old, differs little from that in young persons.

The Causes which act Indirectly, thro' the Medium of the Mind on the Body are, in the First place, Intense Study, or application of the Understanding to Science or Art. I knew a Carpenter in whom Mania was produced by an effort of the Mind to discover a New Stereotype. Arnold says that non Freemen become Mad than Merchants & men engaged in the Learned professions, probably from this Cause Sudden translation of the Mind from one Subject to another. Booksellers are said to be liable to it from this Cause. 2d Such Causes as act Indirectly on the Understanding thro the Medium of the Imagination. This is the Remote Cause of all those Cases of Mania which proceed from Fraudulent Schemes of Speculation, who as Young says "

The Bedlams in Europe contains many such Cases thus produced. 3d Such as act on the Brain thro the Medium of the Memory. Zimmerman relates a Case of a Swiss Clergyman, who became Maniacal, in Consequence of Committing a Long Sermon to memory. 4th It is more commonly produced by

Charles the 6th became mad from anger.

Dietrich has cured it.

Delicacy occasioned it in Dr Buxton who was cought by one of his Scholars.

the operations of the Passions; of these, some act suddenly, as Joy, Terror, Anger &c. each of which have produced the Disease: Others act more slowly, as Love, Grief, Fear, Mortification, Shame, Envy &c. The Loss of Liberty, Property, Reputation, & even Beauty, have all produced Mania, which are sometimes terminated by Suicide. One Case of this has lately been occasioned in a Player, the English Commedian Mc Fullerton, in consequence of his being high in the Character of Macbeth, became deranged & drowned himself in the Delaware. Many of the adventurers in the South Sea Scheme became deranged in consequence of a sudden Paroxysm of Joy produced by the accession of immense wealth.

Terror has so often produced it, that it has become a common saying when persons are much frightened, that they are "Scared out of their wits!!

Love has produced it in cases too numerous to need my relating them.

Fear, has occasioned it; we are told by Brambilla that Mania has produced in some new Recruits from this Cause.

Grief has produced it. False Delicacy & Mortification have occasioned Madness. Percival mentions that a Schoolmaster became Mad in consequence of detection while conversing himself with one of his Scholars. The

The African often become deranged from the Loss of Liberty.

Hundreds in all Countries, go Mad in Consequence of the loss of property. I have seen 2 Cases from Gaming in the Pennsylva. Hospital. One of them did not become deranged till he lost the Shirt on his Back; stripped his Coat first, then his Waist coat, breeches & his Shirt. Having lost every thing he possessed in the World, he became Maniacal. Tacitus says that the Germans even Gamed away their Personal Liberty.

I have known a well attested case where Madness was produced in an Indian from seeing himself in a Looking glass. after recovering from the Small Pox, in consequence of the loss of Beauty.

Anger I have said has produced it; I am told of a famous Statuary who Executed the Equestrian Statue of Charles 6th, became Insane from a fit of Anger produced by being told by a Saddler that he had forgotten to represent the Girth of the Saddle.

5th The Violent Exercise of the Moral Faculties has often perverted the Understanding; it is true that these sometimes operate thro' the Medium of the Passions; but as they sometimes produce this effect exclusively of the Passions, I thought it better to mention it under a Separate head. Consciousness of Guilt often produces derangement.

There is sometimes a Morbid Sensibility of the Conscience which produces many Errors with respect to Religion &c. Disease from this Source is analogous to that from diseasing the Senses. I knew a young man of great Piety, who was engaged in the Study of Divinity, & became mad in consequence of supposing he had offended God by refusing to say Grace at the Table of a Friend. It is true, his family were predisposed to Mania. There are many Instances on Record of madness after fasting, & many other Superstitious Ideas in weak Minds. Superstition always leads to Melancholy, & Melancholy, E contra, always leads to Superstition. Sometimes the Disease in these Cases is accompanied with a Sense of Guilt, & in these Cases, says Johnson, the misery is Extreme. In these cases there is a Mixture of Bodily & Mental disease; Yet there are Instances where the Moral faculty is exclusively affected tho the Cerebrum, as in those cases where there is great Joy from supposed Vision from above. 7th

The ~~Rational faculty~~ Understanding is Spoiled & perverted without the Intermedium of the Moral Faculty, by the study of Revelation; there it is said, "If they do not find a man mad, always leave him so". I think I have observed that this study only produces Derangement, when the time for the accomplishment of the Prophesies is attempted

* of Property; & who would say that Love & Property ought not to be enjoyed on this account.

to be feared. That it will come, I think offers no more violence to human reason than the return of the Seasons of the Year. I cannot help here remarking that when Religion prevents Madness by restraining the undue operations of the Passions, & teaching us to regulate them, & that it never produces Madness but when some — Error is adopted, & even these cases are very few, less frequent than cases of the disease from Love.

We said the distress attendant on Mania, tho' produced only on one Subject, becomes Universal; then when it is produced on one Subject it induces it on others. Poverty produces a sense of guilt & Shame frequently when they are Erroneous. The explanation of the fact is a new Subject, we must attempt it by remarking — that . . . . are in a Torpid State. All these Causes act more certainly & readily if the Patient possesses an — hereditary predisposition to the Disease. I have known 2 persons of one Family admitted in a day into the Pennsylvania Hospital, & a 3d was applied for but not admitted. I cured a Lady of Mania last year, who was the 4th of her family affected by it; I may remark further, that the disease predisposition appears to follow the Mother more than the Father. I repeat then 2 observations of great practical application importance. 1st That in case of Hereditary

Predisposition, a Lighter Exciting Cause will produce the Disease. 2d That when produced, the disease in these Cases is much more difficult to Cure, but not Incurable.

It would be useful to ascertain in what Countries and in what States of Society Chronic Mania is most common: by this Knowledge, we should be able to make a great deduction from Human Misery. During Revolutions in Governments, diseases of the Brain are more frequent than at other times. Apoplexy proceeded from this Cause & the Vehicular mental by the troubles of Rome in 1848. But Revolutions more frequently produce Madness. The Greatest Convulsions often attend the Innovation & Destruction of Governments, loss of Property French &c. & hence a great Scope is given to the operation of the Passions to produce this Disease. Mr Voluney informs us that this Disease has 3 times in France, as common during Revolutions as at any other time, from the Riots & Declamations connected with them: But even at other times it is Remarkable that Suicide is more Common in Paris than in London, even in proportion to their number of Inhabitants. In 1752, there were 150 Cases of Suicide in Paris & only 32 in London. Madness is a frequent Disease in Countries where Speculation is resorted

I attended a young man in the Hospital who became insane at the Loss of an Eye in a Country Fray.

Lord . . . . . who was proclaimed Governor of N. York, became Insane & killed himself that night —

I have known Cases from drawing Prizes.

It is said the Celebrated Dr Heller nearly lost his Reason from the Severity of a Schoolmaster —

resorted to, instead of Regular Industry Trade &c for the purpose of acquiring fortunes. The Bedlam of England Exhibited numerable Instances of this after the bursting of the great South Sea Bubble in 1720. It is remarkable too that more became mad who had made fortunes than of those who were ruined by this Nefarious business.

Where Pride & a desire of Rank & wealth is the prevailing principle as in Great Britain, this is a very frequent disease & appears in all Classes of people. Mr Townsend says there are 664 ..... in Spain, now in this Country Rank is the principle source of Happiness, & the loss of it the principle source of misery.

In Despotic Governments, where Public Passions are unknown, & men are careless about the affairs of the Nation, or at least dare not meddle with them, Derangement is hardly known. Mr Stewart the Pedestrian Traveller says he never knew a case of it in Turkey. & Dr Scott says he never knew in the East Indies but of one case, & that was in a Merchant who suddenly lost all he possessed by a Speculation in Goldcoast Fortunes is very frequent in these Countries & proceeds from absence of Stimulus. In the United States Madness

Dr. Mosely mentions a Case of a Boy 11 years old

There are 2 Cases on Record of our Hospital, 1 of 11, the other of 13.

I attended a Child 2 years old who died with Anemia, who bit every body, & even her Mother; her Eyes & every look indicated Madness &c.

Madness was a rare disease before Drunkenness became common But lottery, sudden changes of ~~fortune~~ Property & reverse of Fortune have become more frequent by the increase of Merchandise, & other Causes, it has increased proportionally. I could mention many cases from this Cause, but I shall relate but one A Farmer had collected a thousand bushels of Wheat which he kept expecting an enormous price for it, he refused 20 Shillings a bushel, went home, & Wheat fell in price commercially; disappointed in his expectations, he became Insane, & his friends were forced to Chain him.

Madness affects persons differently as they are of different Temperaments, as Sanguineous or Nervous. — These two are more subject to the Disease than any other. — It affects particularly Men of strong active Intellects more than those of weak Understandings, hence the Poet

"Great Wit to Madness nearly is allied,"
"And this Partition do their bounds divide." (Pope)

Mania seldom affects persons under Puberty; I have known however, 2 Cases in the Pennsylva Hospital — 1 in a boy of 11 years of age, the other only 7. — Gooding mentions the Case of a Child Born with Mania. The disease first Indicated it in great Strength; he died with other marks of the disease at an Early age. Children are much more frequently born Idiots.

More women than Men become Maniacal, probably because they are more exposed to its Exciting & Remote Causes as Menstruation, Parturition Suckling, Childbearing &c. — Of 8874 Patients admitted into the Bethlehem Hospital between the years 1748 and 1794 — 4832 were women nearly one fifth more than Men.

The predominance of Irritability over Sensibility — under the age of Puberty, protects the System from Mania; for however violently the Remote & Exciting Causes may operate, to Induce it, they are not sufficiently durable to produce Mania. Then Causes acting on Children produce Delirium as frequently as on Men; but their Impressions are not sufficiently lasting to produce Mania.

On the other hand, the great Loss of Irritability of the Blood vessels in old age produces the same effect of protecting the System from Mania; tho' there are a few exceptions to the remark.

The Family of Gen. Montgomery who fell in our Revolutionary War, were subject to Hereditary Mania about their 50th year. Gen. Montgomery once expressed 3 wishes to a friend, respecting his Exit from the World, one was that he might die suddenly: The 2d That if he married, he might die without Children. & the 3d That he might die before he attained the age of 50. The first wish was

was promoted by a desire to avoid pain. The 2d. That he might not Entail so Dreadful a disease on Posterity, as Mania. And the Last, That himself might not live so long as to Inherit it. He obtained them all; he died Childless tho' he Married. He died in the 33d. Year, - And he Died Suddenly on the plains of Abraham in an Honorable Cause.

Idiots are not long Lived: 85 is the oldest Three - Knowns to him says . . . . . Hanah Lewis, who died in the Pennd. Hospital in Nov. 1799 was 87. She became deranged in Consequence of Grief for the loss of her Husband. She was of a long lived family, & had 2 Sisters attained in this disease the age of 94 & 82. - Galens says he knew Madmen grow very old, but relates Plenty one of which was 60, the other 70. The most frequent age of people becoming Maniacal, is, between 20 & 45 - This further shews its Intimate Connection with the Bloodvessels, for most fevers occurs more between those 2 periods of life than at any other time. The Remote Cause in family misfortune acts not till this period.

The Full & Change of the Moon have much Influence on Mania; hence Madmen are called Lunatics. This Influence extends to the Maniacal as well as all the other States of Fever I formerly mentioned

Lecture 15th

Mania Continued.

I have said that Mania is proportioned to the number of Faculties with Derangement. I shall commence with that of the Understanding.

Understanding. This is the lowest grade of Mania is what Dr Cullen calls Melancholia, or Insania Partialis. It is confined to False Perception, False Judgment, or both appearing in the Conversation or Actions. . . . . .

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. . . . . .

Most people it is said are Deranged on some one subject, but then they cannot be said to be Mad, because the above Difinition makes it necessary to appear in the Conversation or Actions of the Patient. This may perhaps be less Visible however, because it is Universal. Thus a person who has been Eating Garlic cannot perceive it in another, perhaps the same thing happens in Derangement & makes it less perceptible. The highest grade of Madness is when all the faculties are deranged. The derangement of

the Understanding is the lowest, & appears the next grade to Hypochondriasis: from this it differs in being attended with a much more complete perversion of Judgement; and the absence of all the Symptoms of Dyspepsia. In Hypochondriasis the Patient supposes himself afflicted with every disease to which the human body is liable. — In this disease he declares he has no disease at all. His fears & distress keep him, & this is the reason why he has no Dyspepsia — This appears to be the Connecting Symptom between Mania and Hypochondriasis. In Hypo. Principles are true, & conclusions drawn from them are false. In Mania, the principles are false, as well as the Conclusions: This is seen in Enthusiasts. The Alchemists, Physicians, Metaphysicians, Politicians, & Divines who contend for the Omnipotence of human Reason, have each furnished examples. It was the Malady of the Celebrated Swedenborg. On every other subject than Religion, he appeared a Rational Man. His perception was unimpaired. I conversed with a Man who knew him & he informed me that upon all other subjects his Conversation was Rational, Agreeable & Interesting. Jemima Wilkinson had a similar perversion of Intellect on the subject of Religion. She enjoyed the use of her Memory, Imagination & but was Insane in supposing her name was not Jemima —

Wilkinson, but that Jemmah had died, & that the one present was the Body of the Second Mufsah. Dr. Percival mentions the Case of a Clergyman who unadvisedly killed a Highwayman in a Struggle by grasping his neck, & who became deranged in Consequence of it (Mr Brown) He supposed that God had annihilated his Soul, & yet his Moral Faculties were unimpaired.

The Romance of Don Quixote is well imagined. he is deranged only on one Subject (Knight Errantry) On all others is a Sensible Man.

John Harborough in the Pennsylvania Hospital was a Sensible Man in Every other Respect than supposing himself the proprietor of Pennsylvania. he spent his time in writing Deeds, Bonds &c. On every other subject than of his Wealth he was a Sensible Man. This Sometimes comes on with the loss of the other Faculties; but it is then of Short Duration. In many Cases the other faculties are brought into Sympathy. here there is no Organic affection of the Brain.

Next that State of perverted Understanding in which there is derangement upon all Subjects. The Predisposing Causes of Fever is Debility. This is direct or Indirect; in each there is an accumulation of Morbid Excitability, which, by the application of the

the Exciting Cause, is converted into Excitement by Morbid Excitement. This is done either by an increase of Natural Stimuli or, by the application of a new Stimulus — called very pretty by Mr John Hunter an Irritant, any of the exciting causes of fever are here included. General Madness then is fever, & as other forms of fever is either accompanied with great or feeble Morbid Action. The first I have called, as in common Tonic Mania. The latter (that accompanied with feeble morbid action) Atonic. They differ only in degree. The Tonic may be compared to Synocha fever, the Atonic to Typhus.

Are there any Premonitory Symptoms of Tonic Madness? Yes there are; & it is of consequence to attend to them, as the disease may be very often prevented which would be very bad to cure. The Premonitory Symptoms of Tonic Mania are Great Watchfulness, Irregularity, or Eccentricity in behaviour & Conversation; Great appetite, Vertigo, Headache, Costiveness; Universal acts of extravagance, Great Irascibility, Jealousy. & all before any derangement is perceived. Instability in all pursuits may be added to the list. In some Constitutions, Certain Signs of an approaching fit occurs, as in the Case I mentioned formerly of a Person Shot in the

Heel, who was afflicted with Mania Periodically. The approach of the Disease was always anticipated by the restoration of the sense of hearing

Are there any Premonitory symptoms of Atonic Mania? Yes there are Unusual Love of Solitude, Chillness & Coldness; Indisposition to Exercise, weak Pulse, Slow Respiration, impaired Appetite, Indifference to all Subjects, except the one on which he is deranged, & indefatigable in the pursuit of that: And all the Symptoms of Hypochondriasis except Dyspepsia.

When the Premonitory Symptoms of Fatuic mania approach, the disease may be ~~prevented~~ aborted by withdrawing the Patient from his pursuits, & substituting some agreeable Amusement. He must be prevented from the painful exercise of the Mind on any particular Study. Long & painful application of the Mind to one Study produces great Debility, & thus Excitability in one part of the Brain which is of course more predisposed to Mania: here the Study should be changed. Rousseau says he never could apply himself entirely to one Study. Mr . . . used to Read Romances as the most agreeable Way of preventing any ill consequences from the Intense application of the Mind to the Study of Mathematics. Men of great Genius are very

very liable to it from this cause. Sir Isaac Newton was almost seized with Mania in consequence intense study. but recovered by being forced into agreeable Company & light Conversation. Boerhaave was unable to sleep for 6 weeks & had other Premonitary Symptoms of Revaria an attack of Mania, but prevented it by being forced from study by his friends. The Body as well as Mind should be exercised Travelling is, of all, the best Method of attaining this purpose.

In preventing an attack of Atonic Mania, when Premonitory Symptoms occur, the Mind should be withdrawn from Study, Exercise, Journies, Stimulating drinks & diet should be used.

The Symptoms of confirmed Tonic Madness, are, wild Staring, fierce Eyes, Great Watchfulness, Great Costiveness: Incoherence on all Subjects in Conversation; deep-seated opinions of supposed injuries from friends and Relatives; fierce & terrible Countenance; Singing, hollowing, & imitation of the noises of different animals; Rattling of Chains, if confined; Great insensibility to the action of Cold & Medicines as Vomits, Purges &c. Costiveness & obstruction of all the Excretions: Insensibility to Contagions; & Keen appetite. These are the Symptoms if the Patients are Confined; but if at Liberty, they resemble-

Beasts more than men. They tear & burn their Clothes, & lacerate & wound their flesh: Smear themselves with their own Excrements: Fly from human Society & seek woods Marshes & unfrequented haunts; sometimes in Churchyards where they even disturb the repose of the Dead, & drag ancient friends from their graves. A case of this is mentioned in the New Testament, & they have occurred in modern times sufficiently often, to vouch for the authenticity of the fact. —

These symptoms appear in proportion to the number of faculties affected, & to the violence of the derangement. If the Moral faculty be deranged, the Language will be proportionally Indecent, or vice versa. & the Conduct more or less hostile. Boswell in his life of Johnson relates that a London tradesman who, in consequence of Intoxication occasionally became deranged; he was soon after affected with a severe fit of the Stone, which relieved his mental anguish. The Pain of the Stone was excessive, & friends were consoling with him, he cried out, "dont pity me what I now feel is ease to the anguish of mind it relieved me of.

So excessive is the misery of this complaint. Perhaps the Bodily pain to be suffered in a future world is intended as an alleviation of the more Terrible Mental Anguish: hence probably the reason why Madmen wound their bodies, hence the practice of Chewing Tobacco

which so universally obtains among Madmen, to Excite bodily action, which will abstract from the horrors of the Mind.

I Knew a Lady in this situation who bore a Child which relieved her of the Disease. She declared it was not more painful than a fit of the Colic compared to the disease of which it relieved her.

Shakespear gives the best History of Madness I have ever met with in the Tragedy of King Lear, in the Characters of Edgar & Lear. he describes the Frenzy of Expression in the following Words

"Thou shalt not die — die for adultery. No!
"Do it Luxury, Pell mell, for I want Soldiers."

and then as if Conscious of the Breach of Decency,

"Fie! fie! fie! give me an Ounce of Civet
"Good Apothecary, to sweeten my Imagination".

The Symptoms of Tonic Madness seldom last long, they either Run into those of Atonic, or terminate in Death, in 3 or 10 days by Inflammation.

The Symptoms of confirmed Atonic Mania are, great Laciturnity, a fixed position of the body; Down cast look, An indifference to Surrounding objects; a dry cold Skin — Total neglect of dress & person, long Beard, hair & Nails — The Colour of the Skin changes from a yellow to a dark brown. A great Spitting, hence they are called Sputatoxic.

it commonly is seen about their Beard. Languid, slow, weak, & quick pulse. Slow Respiration - Costiveness. obstructed excretions. Insensibility to the action of Medicines and Contagions, & an attachment to Tobacco. This, if the Patient is confined; If at Liberty, they seek rather than avoid society and are inoffensive, sometimes passing their time in Gardens sometimes in Kitchens. Also traversing the streets of Cities living by the Liberality of passengers.

It is probable King Nebuchadnezzar laboured under this State of Mania; his resemblance to a Beast was produced by his hair & Nails attaining an uncommon growth. ——— This is the State generally when the Understanding is opposed, & frequently the Memory is in an impaired: where this is also deranged, the Patient is a most deplorable object. Mr Mercy describes this so admirably in his pains of Memory, that I will read an extract from that admired work (Dr R. read a most beautiful passage in this book beginning at the words "observe your structure &c.")

In Tonic Madness sometimes the Passions & Understanding only are opposed, & the Moral faculty, & the Memory are healthy. In this condition Patients preserve their Equanimity of Temper & live 20 or 30 years. They are useful in one or other employments, resembling the Lunatics

in the Penna Hospital. It sometimes however terminates fatally by Epilepsy, Convulsions, & other diseases to be mentioned hereafter. From the great Equanimity of Temper persons frequently become Corpulent. This was the case in ....

In some Patients the Moral Faculty is even improved; here they are very devout, this was the case in .. .. who was extremely pious; he was once found at prayer in a most improbable place – an Oven! after a long hunt for him in every place else.

These 2 States of Tonic & Atonic Mania, are not always so clearly defined; they frequently run into & alternate with each other. In general, there is the most morbid action in the Brain which there is heat in the body

We proceed to Treat of the

Cure of Tonic Mania.

The Remedies for derangement of the Understanding with great morbid Action are, in the first place, Confinement. The Patient should be confined in an airy Situation, from his Friends. If outrageous, he must be secured by means of a Chair & Straight Waistcoat; the latter he will submit to with more Ease; as the Shirt excites as resentment in his mind & he has no Idea that it was forced upon him; It is liable to one inconvenience

in the manner it is now used, that of confining the Patient in a Horizontal posture, this might however be abrogated, & put on hinges sitting. The Recumbent posture should never be allowed, as it forces the quantity of the Blood's afflux to the head. 2da Bloodletting — when indicated by a hard, full, & tense Pulse, or, when the Pulse is preternaturally slow, Intermitting or weak: this is a most certain remedy in Recent cases. I draw from 20 to 25 ounces of blood at first, & is used on the first day it seldome fails of curing: It also renders the Patient much more governable when used later in the disease. The Lancet is my Chain & Mall sheet in Recent Cases of Mania, & I seldome need any other; I bleed afterwards while the fullness, tension &c. remain, or in malignant fever. This is to Atonic Madness what Pleurisy is to Pneumonicula, & we bleed more of course We may bleed from 20 to 200 ℥ with great safety & advantage: As bleeding is my Anodyne in Malignant fever, so it is my Chain in Mania. When the Pulse is not affected by the System, not sympathising generally with the Brain, we must have recourse to Local Bleeding; Cupping on the Back of the Neck & head are to be used.

The propriety of Bloodletting in Mania was —

suggested to me by 3 accredited Cases of the disease by loss of Blood; one in a person who shot himself & bled profusely; the other a Maryland Gentleman who Cut his throat, & bled so much as to Cure him: The 3 where the Radial artery was divided in attempting to break a Glass window. We must bleed more here than in Consumptions of other parts of the Body; as the Brain has no other outlet but the Ventricles, & effusion of there are fatal. 3d Another Depleting Remedy are Vomits. They deplete the whole System, & have the happiest effect when the whole system is brot into Sympathy. 4th Purges, then are Highly proper, Dr Cullen recommends them. They have generally been used of the most acrid & stimulating kind; but Dr Cullen prefers the Milder, as the Soluble Tartar, Cream of Tartar, Sal Glaub. &c. Mr ..... prefers an Infusion of Senna, The daughters ..... who fancied themselves Cows were Cured by Hellebore which acted by powerful Purging; This medicine was afterwards administered by their Physician Melampus, & hence it received the name Melampodium. Infusions &c. of it are now used. 5th Blisters. These should be applied to the head & neck: But the part where is a disputed point. In a letter I received from Dr Willis

he opposes this, & says revulsion is better excited by ap=plying them to the ~~back~~ & Legs & Thighs. This Dr Mon=ro advocates. 6th Dr Parry of Bath has lately ac=quired great fame by the temporary suspension of Mania by Compressing the Carotid artery; this prevents the too great accumulation of blood in the vessels of the Brain. It is only of use in the case we are now treating of, (Tonic Mania.) It is most useful in partial morbid action. 7th Cold air & Cold water. These are of great importance, & should be ap=plied in form of Ice to the head, & be frequently changed it should always be preceded by Bloodletting. Immer=sion of Maniacs in water till they were nearly dead first suggested the Remedy. The best method of employ=ing the general cold Bath is by keeping the Patient not submer=sed, but laying in Cold Water. Cataplasms of Snow & form=ed Ice according to Dr Cullen answer very well. Cold Vinegar has been used in Delirium, it also does good. The Clay Cap is as useful if very Cold. 8th A Sal=ivation. After depletion by the above remedies a Salivation should be our chief dependence; it translates morbid excitement to the mouth; but it further does good by depletion in the neighbourhood of the affected part. 9th Low Diet. Dr Cullen orders it very low, consisting entirely

of Vegetables, & water only for Drink. 10th Hard Labour. Dr Gregory mentions a Case of a man near Aberdeen, who has acquired much reputation by curing Maniacs in this way, by putting them in a Plough as horses, & forcing them to work; a more humane method of lowering the Excitement of the System is, by gentle Labour as Turning &c. Dr Cullen mentions similar Cases.

11th By Implanting, & Diverting the Ruling Passions of his heart. I believe or firmly in the Relations of the Passions ~~with~~ to each another as Ids & Table of Chemical affinities. They Neutralize each other. Thus we are told by Homer, That Achilles was prevented avenging the Death of his friend Patroclus on Hector, by his mother Thetis opposing to his Resentment, the Soft & Gentle Passion of Love. Thus too we are told by Plutarch, That Suicide became Epidemic among the Virgins at Miletus; every endeavour to restrain them by the Parents & Magistrates was ineffectual, till the Magistrates Decreed that the Body of every Virgin who destroyed her life should be exposed Naked to public view; the decree had the desired effect, & put a Stop to the Commission of this Crime; here Shame Neutralized the Passion of . . . . . which prompted them to Suicide. Had the Moral faculty been diseased this would not have put a Stop to it. Fear is

a very good method of composing Turbulent Madmen; we often see the fierce of them Calmed by the loud harsh voice & stern Countenance of a Physician & Cell Keeper. Music should be advised, this has often failed, because, I suspect, the Tunes have not been suited to the State of the Patient. In Tonic Madness, Sedative, Plaintive Tunes should be tried, & in Atonic, Stimulent & lively ones. Burden has given us an account of the efficacy of Music in Calming the Passions of the Mad Monarchs of Persia. & we read of the powerful effects of the Harp of King David on King Saul. Darkness & Solitude should be added; all Visitors should be excluded. There are times when the visits of the Physician & attendants, who convey the Patient meals should be as seldom as possible as the Patient is in so highly excitable a State. The Voice & Manner of the Physician should be always dignified, & the greatest care taken to avoid duplicity. They frequently ask for leave to go home; if you say they shall in 2 weeks, or specify any time & break your promise, they loose all respect for & Confidence in you. They are exceeding accurate in their Reckonings.

Much depends on the Tone of Voice. Milton has called "the human Face Divine." he would have come nearer the truth had he said "the Human Voice Divine."

Fear has sometimes cured Mania; of this a case came to my Knowledge of a Lady in Virginia, who was cured by being thrown from a Horse.

Lecture 66th

Tonic Mania Continued.

Great care should be taken that Patients in this Disease be not pitied or opposed; it acts like Opium in a highly Inflamatory fever. Uncommon pains should be taken to gain the Confidence of our Patients; everything like Coertion should appear to come from another quarter, & to be against the Will of the Physician. Deceit here is justifiable, & the Apothecary or any one else should incur the Credit of confining the Patient, as it necessary for the Patient to have confidence in the Physician. Great attention is to be paid to Cleanliness; his beard & Nails should be cut, & his apartment kept clean. As the disease abates, the Remedies should be changed; the Patient brot out of his Room; his Diet more generous; & he should drink more fermented Liquors: Exercise of a Gentle nature should now be used, as Swinging, Riding in a Chair-

or Carriage; the Cold Bath too should be had recourse to; the Shower Bath only, it serves to weaken morbid action in the Bloodvessels, & Equalize excitement thro' the whole system, & induces a healthy action in the Brain. It should be used two or three times a day, & intermitted several days in a week. Where any of the above Remedies have suspended the disease, they should be used in succession to prevent a relapse, thus the habit of recurrence will be destroyed & the disease eradicated. Thus, I heard of a Woman in whom Madness was suspended whenever she played at Cards.— her friends observing this kept her constantly engaged for several days, during which time she was perfectly well, & by repeating it was finally cured. Dr Priestly a few evenings ago, informed me of the Case of Mr Ash. in England who cured himself of this disease by recurring to the Study of Mathematics of which he was very fond in his Youth; this acted by imparting a more powerful stimulus to the mind than that which caused the disease & exerted a stronger healthy action. In our opinion of the Recovery of a patient, we must guard against their Cunning, which is a Symptom of Mania; & I almost suspect that Cunningness depends on Wrong action in the Brain; they are sometimes so much so as to persuade you they are well, & to escape by that means: Three

Cases cured of Lunatics who been discharged cured from the Penn^a Hospt^l destroying their lives the same day.

Are there any particular Medicines proper in this disease? (Specifics) I know of but few that do good; Hell=ebore is useful only when it Purges. The same may be said of Borax, both of which are supposed Specifics. A Medi=cine which has of late been tried in England with some sue=cess, is, Camphor, Dr Dobson speaks of it in high terms, he reduced the Pulse from 80, to 70 by the use of ℥i a day, & the next day from 70 to 60 by the same quantity. Another Remedy which from its property of reducing the Pulse, is = used, is, Digitalis. Dr Withering used it with advantage. I have seen it succeed in one Case in the Penn^a Hospt. but it returned again. Is Opium proper in Fomic Ma=nia? No I believe never. Dr Cullens opinion that it is a Sedative, has misled him on this subject, & has certain=ly done immense mischief. I have witnessed in some Cases its bad effects, & seen from 2 to 10 grains given with=out producing Sleep: & I have lately heard of 4ʒ opt given in 9 days without sleep.

Coertion is a Remedy which is useful in this State. Dr Willis practised it with the greatest advantage in the Case of the King of G. Britain. Perhaps here it was useful in proportion as it was attended with fear: Persons were

employed to keep up this Passion by whips. This I think should be avoided as it tends to form unalterable associations. It is said the King of Great Britain cannot now see a whip without horror. Dr Physic says Coercion does most good after bleeding & Low diet. I yesterday mentioned that Dr Gregory relates the Case of a Farmer near Aberdeen in Scotland who became Maniac by hard Labour; but experience has proved that the excitement of the System may be taken down by more gentle methods, & more certainly regulated in degree by depleting Remedies, than by the Mad Shirt, or the Plough. With this Treatment, I have within the 2 last years cured a number of Maniacs; - And in no one Case of Tonic Mania have I failed, where I was called early in the Disease, & used it to sufficient Extent.

From the Theory which I have adopted, I consider Mania as much under the Power of Medicine, as Pleurisy, or a Common Remitting Fever.

The Cure of Atonic Mania, Is to be commenced by the Warm Bath. This is the first Remedy I mention, & to be effectual, it should be continued a long time Weeks, or Months. When the System has by this means been raised from its Torpor, the Cold Bath should

be used. Then 2 Remedies have often produced the happiest effects; when, however, they cannot be used, hot air must be substituted, or Vapour, which may be rendered more stimulant by containing Salt or Spirits. The most Remedy is Wine or Ardent Spirits; this is especially to be used when the disease has been produced by the excessive intemperate use of Ardent Spirits. I have seen a pint of Spirits transform a Beast to a Man in a few hours; it may also be used where Opium has failed. — 3d Opium, this medicine produces wonderful effects in Atonic Mania. Dr Sydenham has left a Record in favor of it in Atonic Madness; it is to be used in all cases brot on by strong drinks, & frequently prevents having recourse to that remedy for a time. For Typhomania, that which remains after Typhus Fever, Dr Cullen used it with great advantage in the Military Hospts. I have seen it used in these cases with the happiest effects. — 4th Blisters & Cauteries to the Head & neck; where they fail 'tis owing to their too weak stimulus. Cauteries are therefore, to be preferred as most stimulating. I have adopted the opinion of their Utility from 4 Cases of Mania which I have seen cured by accidental Abscesses in different parts of the Body. John Derborah was cured by one after he had been one third part of his life Deranged.

Johnson in his Life of Dean Swift mentions that the Dean had a Temporary return of his Reason during an Abscess in one of his Eyes. We cannot suppose they act by discharging anything morbid, but by Inverting a determination of Morbid action to the part. 5th Dr Parey found evident advantage in Tonic Mania, from pressing on the Carotid artery; this lessens action in the Brain. What would be the effect of Compressing the Jugular veins in the Atonic State? Could we not produce a stronger healthy action, & thus impart tone to the Brain? An Epidemic Fever about 30 years ago, Cured all the Maniacs in the Hospital: Once an Inflamatory angina has since had a similar effect upon a part of them.

Few Maniacs die without discovering signs of Reason before they die. Fulfius notices this. Cervantes has therefore done well to allow Quixote a dawn of Reason before his death to lament the folly & extravagant acts of Madness he had committed. Few men die without fever; & this is probably the cause of the return of Reason; one disease supplanting another. 7th Exciting the Stimulating Passions, as Anger, Terror &c. Insults, would probably be the best mode of producing the first; they act as a Stimulus to the Brain, & are useful in Hypochondriasis. Music

may be tried with safety & advantage. Exercise, as Riding Walking &c. Cleanliness, Shaving the Beard, cutting the Nails &c. should be carefully attended to. Exercise is of great Consequence to assist all the other Remedies. They will never succeed where the Patient is kept Confined in a Narrow damp Cell of an Hospital. 10th

A Salivation should be used. I have seen it produce wonderful effects in a most deplorable Case of Insanity in a Boy, who is now a Living, Speaking Monument of its Efficacy.

I shall proceed to mention the Symptoms which Indicate a favorable or unfavorable Issue of the disease. The First is Sleeping; this is favorable, it shews the disease to be mild especially if it come on with this Symptom of Hysteria: It shews the disease is going off by the same Road. A Sense of Pain returning after it has been long absent, is a favorable sign; thus, Hypochondriasis differs from Confirmed Madness; where it is absent, the madness is confirmed; where a sense of pain remains it shews a Symptom of Hypochondriasis, which is of course more easily cured: A return of old habits is always favorable. Sir George Baker predicted the favorable termination to the Malady of the King of Great Britain by the return of the habit of Speaking very Rapidly, which he

naturally does. I knew a Man of Stuttering which returned just before the recovery from the Fever in our Hospital. I knew a young Lady in whom Convulsions appeared in no one circumstance except in return of her Custom of Copying Select pieces of Poetry on Sunday. She soon recovered.

An acknowledgement of friends & Relations, & an expression of affection for them, are favorable signs. — A Patient in the Penna. Hosp.l to whom I had allowed Liberty several weeks, told me one day, she was well then, & had just got well, for she added, I have just ceased to hate the Doctor. It recurred in St. Lewis also just before recovery. A return of any old disease, or a desire for any thing formerly agreeable, is favorable. In the Patient I have spoken of, the return of his fondness for Ginger bread Cakes gave me a favorable Idea of the issue of the Case, & my expectations were answered, he recovered.

I knew a Lady whom Epilepsy had almost made an Idiot, in whom the first sign of Dawning Intellect was, a return of her attachment to Religion. She had been Educated in a Religious family, & used regularly to pray Night & morning; this she left off in Polite Life before the Disease; but as health & mind returned, she again resumed it; & when she was perfectly well

left off saying her prayers!

A Return of any old Disease which Mania suspends is favorable, - Eruptions, Abscesses, Piles &c. It was owing to the Return of an habitual abscess in the Groin, that Dean Swift enjoyed the Temporary Suspension of Madness. I have seen it Recover in the Penns.a Hospt. from the same Cause. A Return of liability to Contagious diseases is favorable. A Malignant disease, as I before observed, has often cured it. Inflammation has caused Several A Running & picking of the Nose favorable. Warm - Moist hands & feet are favorable, especially when they occur after Coldness, also a Cessation of burning in the hands or feet. A Return of one Regular Stool a day is favorable. A Diarrhoea is not, & generally a fatal Symptom. A General fever after Bloodletting is favorable; it shews that the disease which was concentrated in the brain, tends to diffuse itself. A Return of old Pains, Rheumatic &c. favorable.

The longer Patients have been exposed to the Remote & Predisposing Causes, the less probability is there of a Recovery, & vice versa.

Madness is more readily cured when it proceeds from Physical than Moral Causes, as the Sympathy from the latter is greatest.

Young People are most readily Cured. In the Mad house at Haarlem of 31 Cases between 60 & 70 years old only one was Cured.

It has always been allowed that Fowl madness is most easily Cured. A return of the Passion is a favorable Symptom. That Madness which succeeds Parturition is easily Cured. I have never failed in it. Lypthomania the same.

It is said that Hereditary Madness is hardest of Cure. I have not found it so, it is most apt to return, but yields as readily as that which is not Hereditary. Some Patients with Hereditary Mania have been Cured half a dozen times.

Madness accompanied with Epilepsy, I have never known Cured.

This disease terminates fatally in the following diseases: Diarrhoea, Convulsions, Pulmonary Consumption, Atrophy, Epilepsy - most commonly in Diarrhoea; there is generally as I before observed a return of Reason before Death.

Madness is more or less easily cured in proportion to the time that has relapsed before relief is sought.

Lecture 67th

We proceed to speak of the diseases of the other faculties, & next to the Understanding in the Memory.

The Memory is frequently affected with weakness. Weakness of Memory may be owing either to a total defect or to an excess of action in that part of the Brain which is the seat of this faculty. Loss of Memory is frequently a consequence of fever especially Nervous fever. There is sometimes a kind of involuntary motion of the Memory. I knew a Gentleman who forgot the mode of calling for a knife; & if he wished to ask his servant for a knife, he asked for a bushel of wheat. No more happens here than happens in Involuntary motion of the Muscles in Chorea Sancti Vitæ: here the influence of the will is too feeble to produce correspondent action of the Muscles.

There is frequently an oblivion of words while whole Ideas remain in the memory; this was the case in a remarkable degree in Judge Hopkinson, he forgot the word Butter, but retained the Idea of the quality, taste, &c &c. he expressed it by drawing his knife

over his bread. Again, there is something like a Palsy of the Memory for words; this I well recollect in a School fellow who had a very excellent Capacity for Lessons but was a whole week in committing a Grammar Rule to Memory; it was, "the dative & ablative plural are alike". Nothing more happens here than happens in a Palsy of other parts of the body.

Having thus Considered the Phenomena of diseased Memory; I proceed to mention the Remote Causes & the Cure. The Causes of weakness of Memory are, 1st. Intemperance in Eating, & in Drinking. S... tonius relates in his life of the Emperor Caligula, that it was so to on him by this latter Cause, to so great a degree, that he never remembered his friends till they spoke he heard them speak: It is from this cause, that drunkards have so poor memories, that a Law was formerly passed existed in Spain which Incapacitated any man from giving Evidence in a Court of Justice who had ever been detected Drunk. 3d. Excess in Venery has sometimes produced it. 4th. Grief. A Woman who has lately lost a Husband & Children informed me that she has lost Memory in a great degree in Consequence of it. 5th. Habitual use of Opium to great excess has often produced it. 6th.

Excessive Sleep has produced it. 7th Lesions on the Brain. 8th Fever, especially the low Chronic Nervous fever, or Gout translated to the Brain, also Apoplexy, Epilepsy, Palsy, Vertigo &c. Excessive bleeding for Epilepsy has caused it; healing up of old Sores & Issues: The inordinate use of Snuff has occasioned it; of this Sir John Pringle mentions cases: It was produced by this Cause in the Father of Dr Mapilae.. Lastly, & Lastly loading the memory with too many words. Weakness of Memory I believe often proceeds from ~~making~~ ~~Introduction~~ the absurd practice of making young Children commit long Speeches to memory, & by learning in their tender years, the Dead Languages. The World has thus been deprived of the Labours of men of Genius; & Men have been deprived of the advantage of this useful Faculty. They should not be put to acquire words till they have acquired Ideas. People forget not only what they read & say, but also what they write. Sir Isaac Newton forgot almost every thing contained in his Principia. Mr Hue of Germany forgot all the Contents of his writings on Conic Sections; Leibnitz who expected much Entertainment on the Subject, visited him; but he put into Mr L's hand

hand his work on that subject, & declared he knew not what it contained since he became a Burgomaster of Amsterdam. Mr. Hume forgot almost everything contained in his History.

The CURE of Weak Memory consists 1st. In avoiding all the Predisposing & Occasional Causes. 2d. By paying great attention to & frequently repeating what we wish to remember; so strongly may any Circumstance be thus impressed on the mind that we may be persuaded a falsehood is true. Old people never forget where they hide their Money, because they think constantly about it. Shakespeare well understood the truth of the observation I have just made, when in the Tempest he makes Prospero say "he has made such a Drudge of his Memory as to Correct his own Lies" — I once knew an intelligent Lady who forbad her Daughter to relate her dreams because it would give her a habit of Lying by often speaking of Nonentities.

When we are anxious to commit a Certain Idea, the more Senses we employ to acquire it the more certain we shall be to retain it; thus, we remember better what we see & hear, than if we only see or hear it, hence Children & the Vulgar —

read often, alone, with an audible voice. 4th By association of Ideas, 1st of place — 2d of pleasures — Thus a Physician meets a Patient in the streets & promises him Medicine, he shall forget it untill he passes by the same spot again, or till he meets a person who was perhaps walking with him &c. Great assistance may be derived in an endeavour to recollect a lost Idea by placing ourselves in exactly the same situation we were when we it first struck us. 3d By associating Pain, hence the propriety of stopping boys at local marks to serve as witnesses at a future day; & hence women recollect every circumstance they wish to recall by associating it with the birth of a child; they have been called from this circumstance living Almanacks. Memory may be assisted by association of Certain Ideas with arbitrary Signs as a Knot in a handkerchief, a string round the finger &c. 5th Memory may be assisted by an association of certain Sounds & Ideas. Thus the swift melancholy is produced by certain sounds which excite the recollection of the Scenes where they first heard the Tune. 6th By associating Words. 7th By association of Letters. —

I knew a person who could never recollect whether the Umbilical Chord had 2 Arteries or 2 Veins — till he separated the 2 A, A, with those which occur in Dr Boerhaaves name. Such of you who wish to read on this Subject, may consult either Locke, Reid or Beattie. An 8th method of improving the Memory is, by acquiring only useful Ideas & Truths. Dr Johnson was once asked how he did to remember all he heard; he answered, he took no notice of anything he heard in Conversation excepting what was true & useful; he was sometimes so deeply interested as to be unmindful of anything else, & when asked by another of the Company what he was thinking of, to avoid Interruption he answered "Tom Thumb!"

9th The Memory may be made more extensively useful by exercise of it; Memorandum Books should never be used by Young People; they are like Go-carts to those who can walk: They are only necessary in the decline of life. Writing an Idea on paper is very useful in retaining it. 10th Dr Van Rhon in the year 1793, informed me that he could at any time recollect any particular word by repeating a few lines of Poetry he then stimulated that part of the Brain which is the Seat of the Memory: a very Ingenious Method.

11th By singing we can retain the words of poetry set to Music much sooner than an equal number of words that are not. Virgil was well acquainted with this —

"Sepae ego = Longos —

He has been much celebrated for his Poetry, I think as highly of his Philosophy.

Having now said all that is necessary to Physicians, & Metaphysicians on this subject; we shall consider the next mode of reducing morbid action in the Brain, which is, by avoiding all the exciting Causes, as Vertigo &c. &c. Where it depends on weak morbid action, it may be overcome by the habitual use of certain medicines, as 1st Spices. Etmuller cured it by taking 3 or 4 Cubebs daily. 2d The Cold Bath; this is a most excellent remedy in defect of Memory. Mr. Pope speaks of a hard trotting horse as a very excellent one to excite Ideas which lie dormant.

Words & Ideas may very often be excited after they have been forgotten many years: Thus the Countess Lavel had learned the ~~French~~ Welsh Language, by being under the Care of a Welsh Nurse; She forgot it however, when She learned French, & never knew any

anything of it. During the delirium of a fever which attacked her about the 30 year of her age, She spoke a Language unknown to any of her attendants; her Relations supposed it was Welsh, & called on old Welsh neighbour who confirmed the supposition.

I once knew a young Gentleman who spoke French fluently while he was under the influence of Liquor, who declared he did not know a word of it when sober: he had learned it when a Child & forgotten it the Liquor stimulated that part of the Brain where then Ideas were lodged.

The Father of the late Speaker of the House of Representatives of the U. S. the Reverend Mr. Mechlenburgh, informed me that he had visited some Swedes just before Death, who had lived from the first settle of this place to an old age; they spoke Swedish in their Prayers, which they must have forgotten, as they had never spoken a word of it for 60 or 70 years before.

Dr Scandella who came to this Country and died of the Yellow Fever in 1792 in N. York. he had learned the English, French & Italian Languages, when he was taken first, he spoke English, as he grew worse he spoke French; and before he died he spoke nothing but Italian.

Next of Fatuity or Idiotism.

This consists in an absence of Understanding, Memory, Imagination, & all the Faculties but the Passions; these are sometimes absent & sometimes not: That the Passions exist in some Idiots, is strictly true, especially Love; witness old Michael an Idiot in this City who is in Love with every handsome woman in the City. There are different degrees of it; it is worst when attended with great . . . . . & is sometimes attended Ludicrous Gesticulations of the Body & Limbs: In some there is a most profound Taciturnity: Sometimes it is Congenial: But it is sometimes the effect of Lesions on the head from a fall: Sometimes it is procured from Injury of the Brain, from fever, from the excessive use of Opium; Intemperance in drinking is a very frequent Cause; from violent Passions, & in general from all the Causes of Mania that have been enumerated. 3d. Old age frequently Causes Idiotism. It is a Melancholy truth that we are once Men & twice Children. Old people become Idiotical more especially as they do not employ their Mental Powers by Reading; hence Country people are more —

* By no means Dr Hunters Language, but a very Concise account of the principal Circumstances of the Case.

apt to be so than Citizens, from their want of taste for Books or Conversation.

You will Smile if I attempt to speak of a Cure for this; but Idiotism can be, & has been Cured. The effects of Time in the Cure of Fatuity are wonderful, if assisted by any Medicines. (Dr. R. read a letter from Dr Hunter of the Lunatic Asylum at York, containing an account of a Cure performed on a Man who was afflicted with Idiotism by a heavy loss at Sea; he continued two years in the Hospital; & of a sudden one day he Spoke, which he had not done before, but was led about the house & fed; in Short, he seemed more like a Locomotive Vegetable than anything else: he returned thanks to the attendants of the Hospital for their Care & attention; said he had thought of it for Weeks, but could not take resolution to Speak till then: he was discharged well, & in the Course of a few days after. (No medicine was used here, but time effected the Cure. As Thought returned, Sensation came also, hand in hand.) He is now engaged in the Baltic Trade. Dr Percival relates a Curious case where the disease was cured by Pulmonary Consumption where it had been 34 years standing in a young Woman; during her illness she astonished all around

her by her Conversation. Fatuity has been cured by pain excited by burns, wounds or Contusions in different parts of the body: This is done by exciting a new Impression — more powerful than that of the disease. Hence we might suppose that violent pain might Cure the disease; it should be attempted. The other remedies, are, Tonics, Cha-lybeates, Exercise; the hot & Cold Bathes. The Excitability of the System should, however, be accumulated before these remedies are Exhibited, by depletion & Low Diet. —

As Idiots are great Eaters, this is a consequence to be attended to, & the loop of Excitement thus produced is translated to the Brain. In some Cases of Idiotism — Excitement appears to be Translated to the Organs of Generation; Venereal Desires are very Strong.

Are there any Medicines which act Specifically on the Brain which would be useful in this Disease? Yes, I think there are, Stramonium, Wine, & Ardent Spirits perhaps. Wine & Ardent Spirits will produce such excitement in the Brain, as to produce Signs of Wit & Reason in persons of very low Intellect, & enlivens very much every Conversation. The Fatuity cannot be Cured in old people, it can be prevented in old, and young. Dr Johnson says the Reason of Dean Swifts fatuity was, a Vow he made in his youth Never to wear

Spectacles, to which he adhered so superstitiously, that he was unable to Read; & his extreme avarice which prevented his having any Conversation, because he was afraid if he visited he would have to entertain people at his house; he was thus prevented from Renovating his Laces, or acquiring new ones. It is for the want of Mental Exercise that Country people are more subject to it than Citizens. It is because Dr Franklin Read & Conversed so much, that he enjoyed the perfection of his Mental faculties untill his 84th year.

It is remarkable that in the absence of all the Mental Faculties, the Moral faculty is excepted: If any proof were necessary for its divine origin, this were sufficient to establish it. It exists in its full vigor in Idiots & is constantly Exercised.

I neglected to mention one fact when speaking of Pain as a probable remedy for Idiotism, it was mentioned to me by the famous Pedestrian Mr Stewart. It is, a custom which prevails in Italy of bringing all the Idiots on a certain day for the purpose of performing a Miracle, which is to consist in making them, or any one of them, speak or utter some rational words, by inflicting the severest pain of the Torture.

Note of the Diseased Moral Faculty.

For the Causes of a derangement of them, I beg leave to refer you to an Oration delivered before the American Philosophical Society, entitled an Enquiry into the Physical Cause & influence of Physical Causes on the Moral Faculties. I have said that Vice is the effect of Stimuli acting on the Moral faculty, & producing morbid or wrong action there: Once then Gentlemen Vice is a Disease. It consists of Morbid action of the Mind, analogous to disease of the Body.

1st Is Disease produced by certain Causes existing in the Air? So is Vice the effect of certain Agents or Stimuli producing action in the Mind.

2d Is Disease relieved by removing from a polluted atmosphere to a pure one? So Vice is Cured by abstraction from improper Company.

3d Does Debility in a part of the body invite Morbid action to that part? So does Idleness, which is the Debility of the Mind, Predispose to or Invite irregular excitement or wrong action, which is Vice in the Mind; hence Mr Burgar very properly terms an Idle Brain the Devils Work Shop.

4th Does Disease appear accompanied with different degrees of morbid action? So does Vice in the Mind.

5th Do a certain use of Depleting remedies cure disease by weakening morbid action in the System? So is Vice cured by Temperance: Fasting is therefore proper to cure Vice and should be a part of every system of Repentance.

6th Do we overcome morbid action by stimuli of greater force than that producing the Disease? So we cure the Vice of Avarice & Inordinate Love of Pleasure by opposing to them the Passion of Ambition.

7th Is it not impossible that for 2 diseases or two impressions of unequal force to exist at the same time? So it is that 2 moral impressions should exist; hence we cannot at once serve God & Mammon.

8th Do we . . . . . .

. . . So we do in the Mind; hence the Reason why the too great stimulus of Terror is insufficient to reclaim the Wicked. Mr. Wesley used very properly, to recommend to young Clergymen to begin with a very gentle Expostulation on the advantages to be derived from the performance of virtuous actions & doing our duty, and then to unfold ~~gradually~~ & by degrees by degrees, & gradually expose the terrible consequences of vice & a refusal to accept of the Redemption offered. Pour Saurin very aptly compares the very opposite conduct of such as would cure suddenly & by violent means, to putting "New

New Wine (with a great deal of unfermented matter) into old Bottles."

9th. Is there sometimes such an Expenditure of Excitement & Excitability that the body is not to be acted on by any Medicines? So there is in the Minds of some. Such persons are said to have their Consciences Seared with a red hot Iron.

I might go on & shew the analogy which obtains between Vice & particular bodily diseases, but this would lead me far from the present subject. I will only add that Vice Plethora, has never yet been cured where a ~~possessing~~ ~~of~~ forgiveness of it has not been promised & a reliance placed on Redemption. In vain is it attempted to cure Vice by Corporeal Punishment, by the Terrible Instrumentality of the Lot & the Halter. The Venereal disease made the most dreadful ravages while Patients with it were held in contempt & Ridicule; but these ravages have been checked, since they have been received by their friends with kindness & taken proper care of. The influence of mild gentle treatment in the cure of Vice, is no where more evident than in the Philad. Gaol. Let me advise you Gentlemen to visit this place before you leave the City. It will be a lasting Monument of the Victory of human Reason & Science, over

over Vice. Many who Entered it as Brutes or even Devils, have been Turned out peaceable men thro' the influence of a low diet, Solitude, darkness, Silence, Constant labour, Moderate Steep, & other treatment proper for their mental Disease. May this Philosophical Spirit extend itself all over the World: May the Abolition of Capital Punishments, & the Cruelty of the Clergy in denouncing the Eternal Vengeance of the Almighty, prove that Vice in Government as well as in Religion, may be Eradicated by the effectual Remedies of Mild treatment, & punishments adapted to, & Regulated by the Nature of the Crimes.

Lecture 68th

When speaking of Sciatica I forgot to mention a Remedy recommended by Bertholine viz. Verbesilbeas. This is a Remedy (Stripes) I have often wished to see used in Atonic Mania; especially since I have heard of the efficacy of Scum pain in Sciatica as practised in Italy. It acts not only by the pain produced but by anger, the effects of which are well known in

in Stimulating the Brain.

It has been said that Madness Cured, is apt to return; so is Pleurisy or an Intermittent; but I can readily believe that if all the Remote & exciting Causes are carefully avoided, no return of it need be dreaded: here it is of the greatest consequence to have some constant & pleasant amusement or occupation for our Patient. Mr. Cooper the celebrated Poet was afflicted with Madness, but was cured by translating Homer. His friends observing that he was worse when he had nothing to do, gave him this to Translate, & he was quite well when thus employed. From the above view of the various Medicines necessary in diseases of the Mental faculties, we see how difficult it is to have them all used properly in Public Hospitals: it is not then to be wondered at that the successful treatment of these diseases is much facilitated in private ~~Madhouses~~ Mad. houses. Such Institutions have been famous in England for their successful treatment of Mania. Dr Willis & Dr..... have acquired great reputation and handsome fortunes by their establishment of them. — The Mechanics can be prepared with more accuracy; and what is of immense consequence, suited to the varying state of the symptoms, & the disease. But above all the calamity of the Patient is here concealed from the world

Permit me Gentlemen to recommend similar acts of Philanthropy to your future Institutions, or the Erection of private Mad houses in this Country.

and almost from himself; the admittance of impertinent visitors is prevented, which is one of the greatest calamities that can befall the human mind in that state of disease. I knew a Hypochondriac young man in this City, who was merely deprived of his reason, who committed Suicide & gave this as a reason for so doing. The Relations of Patients & their friends neglect them more than any other, because they consider it an incurable disease, & Death inevitable. Every tie which connected them appears to be dissolved. It is of consequence to correct this Error; & Physicians ought to declare that Madness is under the power of Medicine, & curable; & this I have no doubt hesitation in saying, will much facilitate & accelerate the cure. In saying that Madness is curable, I do not say that it is always so in cases of long standing: there appears to be in such cases an attrition in the organization of the Brain, & the disease cannot in such cases be removed; but in some Cases, Intermitting fevers & Pleurisies neglected, become alike incurable. We are seldom able to cure patients that have been deranged more than 2 or 3 years; there appears to be a Schirrhus in the brain in these cases analagous to those in other parts of

the Body; and since we are witnesses of the wonderful effects of certain ~~Strong~~ Tonics in the removal of ~~these~~ obstructions of other Schirrhi, we may reasonably infer that the same remedies would prove successful here.

Vice I have endeavoured to prove, is the effect of disease in that part of the Brain which is the seat of the moral faculty: That it may be cured by human precaution, is proved by the excellent regulations in the new Jail. Let not not medical Brethren Gentlemen be out done by Moral. Truth is a Unit with respect to Body & Mind . . . . . .

We proceed next to speak of the diseases of the

Passions.

These are most frequently diseased from excess in their operations; but sometimes also from a deficiency in their force. In some they appear to take on Convulsive action. I knew a Lady in whom the Feriation of the Passions was so complete, that she was incapable of Love, Anger, Fear &c. She told me once she could love & hate no one; She was alike indifferent to pleasure & Pain. A Gentleman one informed me that a disease had produced in him this —

feration of the Passions; he was a very Domestic man & very fond of his ~~wife~~ Children & wife; but in consequence of a fever, he had his affections so alienated from them that he appeared as he was so indifferent to them that he would not have raised himself out of his chair to prevent their being Murdered before his Eyes.

I have often observed that Poets are better Philosophers of the mind than Physicians. Homer describes this feration of the Mind in the following verses.

" . . . . . of Life away
. . . . . fore,
. . . . . Corse,
. . . . . Serene
. . . . . Scene".

I have not met with so good an account of this state of the mind in any Medical author I have yet read.

To cure this absence of the Passions, the remedies are to be suited to the state of the system. Exercise of a gentle nature; Tonics especially the Cold Bath are proper. Also Pain in the manner formerly mentioned; a Salivation is an excellent remedy; I knew a woman in Virginia who was delivered of a Child which She denied to be her own, & for which she possessed no affection, & refused even to give it suck

a Salivation was excited & as her mouth became tender she acquired an aversion for her Child.

The Passions most subject to Inordinate action & the most under the Influence of Physical, Causes: are, Love, Grief, Anger, Fear. And to these I shall confine myself; & here I shall avail myself, as before of Medicine, Metaphysics, Morals, & Religion, for each should form a part of the Materia Medica of a Physician.

Nothing has a stronger influence on the Passions than their treatment in Children; here "Example goes further than Precept". A Boy will never doubt himself of a Passion, while he sees it daily indulged in his Parents or Tutor.

The study of a Science has a very strong influence on the Passions, and of the Sciences none is so powerful in restraining the violence of the Passions as Mathematics. — Mr Parmer a pious Divine of the Catholic Congregation late of this City, informed me that whenever he retired to his devotions, he always made it a Rule first to demonstrate 2 or 3 propositions in Euclid; by this means he brot his passions into Subjection, hushed every tumult, & his Understanding triumphed alone in the presence of the Deity.

Might it not prove very beneficial in quelling the Morbid effects of Love? In Anger, it is certainly very powerful. Sir Isaac Newton was a man of great

Equanimity of Temper; of this we have a striking proof. he was studying by a table on evening on which were laid the works & Labours of half his Life; a little dog in the room jumped on the table & knocked down the Candle, which set the whole on fire: Instead of Execrating the dog, he Cried out, "Oh Diamond, Diamond, little dost thou know the Mischief thou hast done thy Master!

We have two very Illustrious Instances in proof of our Position in our own Country; General Washington, & Dr Rittenhouse, were both men, we are told, naturally of very acute feelings; but by the Study of Mathematics, they were Subdued.

We proceed next to Speak of the disease of

Love. This Passion in Excess shews itself in great irritability of the System; great mutability of Temper & behaviour; Blushing is of course very easily excited; Great Volubility or absolute Silence concerning the beloved object; Sighing, want of Sleep; Love of Solitude and moonlight. Le there La Bruyne (who appears to have viewed the Passions thro' a Microscope) holds out other marks of Love, less equivocal than any other. He says it may be known whether a Woman Loves a Man either if She looks steadily on him in Company, or if She keeps her Eyes constantly from him. Love is a disease, only,

in Epsp. It Polishes a young man, but makes awkward. It has been compared to . . . . which ceases to be painful when the danger is over, & the object beloved is possessed.

When Unsuccessful, it is a fever, & appears with symptoms of Dyspepsia, Hypochondriasis, Hysteria, Mania, with Suicide, & Death from other causes. I knew an instance of Suicide from unsuccessful love. Mr. Golvan an officer in the Army during the Revolution (Frenchman) killed himself by discharging the contents of a Pistol thro' his Brain in consequence of being refused by a Lady of great Beauty and Fashion, when he Courted in this City. Before his Death he wrote the following words which he left on his Table. "Fortunate Lovers may condemn, but Unfortunate Lovers, you will Pity me!" I mention this fact only to shew the importance & danger of a violent attack of this disease. It is remarkable that during the whole progress of a Love Fit, the Lover never dreams of the object of his affections: Nay, he cannot with ease recall a Vivid Idea of her Face & Person, in her absence; tho' he can describe her Charms with the greatest accuracy. A Gentleman in this City informed me that during a sincere attachment to a Lady for 7 years, to whom he was afterwards married, he never once dreamed of her, tho' She

was the constant object of his working thoughts. May not this be owing to a degree of Indirect debility induced in that part of the Brain which is the Seat of Memory, from the constant exercise of it on this subject? And will not this account for the want of Sleep which so often occurs? In the beginning & decline of the Passion, the beloved object is dreamed of. —

Love occurs in persons of old ages; Old age itself is no protection. General Lee informed me that in travelling thro' Bulgaria, he passed thro' a Village, where he asked the Innkeeper what curiosities were in the Town; he pointed to a house in which he said an old man Lived, 112 years of age: the General hoped to see the old Man, & upon coming to the door, he saw one, he asked him his age, "I am 80" answered he; I thought said the General, you were 112!" "No, said the man, that is my father!" "And where is your Father" asked the Genl. "he has gone out, & I don't care if he never returns, for he has just displeased me & my happiness, by interposing his authority & preventing my marrying a fine young Wife"!! he burst into tears!

For the Cure of unsuccessful Love, the following Remedies may be used with advantage. If much sighing Bloodletting & Blistering should be used. Yes Gentlemen, I have Bled, Blistered, Purged, & Pickled for the Cure of Love, & with the happiest effects.

The Prince of Condé who was in Love with a young Lady in the Court of France, was seized with a fever in consequence of it, for which he was Bled, Blistered &c. & it cured him of his Passion as well as of his disease. He said to the Dr who Cured him, "Why Dr you have drawn off all my Love together with my Blood. In the use of this we should prescribe from the Pulse of our Patients: And in a Citizen of Philadª I knew it from feeling his Pulse in presence of the beloved Lady. This should always be done to ascertain if it be Love. The Pulse will quicken if the name be mentioned. Hippocrates gained much Credit in Greece, from finding out that Love was the Cause of many cases of fever there. Ovid that excellent describer of this passion, recommends a more agreeable remedy for it, the "Vinum Amicum"; this never fails; 'tis a most Sovereign remedy, as fire drives out fire, & Pity, pity, so Love drives out Love. Ovid further recommends to unsuccessful Lovers, to find out & dwell carefully upon her bad qualities: If she has no taste for Music, & Can't sing, request her to Play & Sing &c. 4th. The Company of the person beloved should be carefully avoided: The flame will Increase whenever an opportunity of conversing with her is afforded; hence the Company of Strangers should always be added to prevent this. Hope should be utterly Extinguished.

Don Quixote says, very justly, Hope & Love were Born together, & must die together. Lastly Rochefoucault recommends to oppose it by any other Passion especially resentment against the Friends & Relations of the Beloved object. Nothing he says, more certainly extinguishes Love.

Next of Grief. As this Passion is excessive very often fall under the notice of the Physician, from the nature of his profession, it is of consequence to know its Danger & Cure. When Excessive it very frequently terminates in Catalepsy, Syncope, Asphixia, Hysteria, Hypochondriasis, Mania & Death. The heart is found opported after death from this Cause. In some cases its Ventricles, in some the Auricles are Ruptured, & in most Cases there is great Congestion. It is a business of Medicine to prevent this; for this purpose great care should be taken that bad news be imparted gradually. Tears are generally a Symptom of Grief, but this is not uniformly so. in many cases Grief is so excessive that this cannot take place; in intense grief tears seldom flow; this can explain by supposing such a degree of direct Debility present as to prevent this: When this State of the System is induced by its first operation, there is generally a great degree of Insensibility, & also of weakness. Instances are on Record of persons losing their nearest Connections without

at first shewing any signs of Grief. I explained the Cause of this & of wakefulness formerly. The stimulus of the one Idea, however, in some Cases, wears down the Excitability, & a great degree of Sleepiness is the Consequence; this frequently occurs.

Among the Remedies for this disease, let me mention a . . . . by Mr Stonehouse in England, at his own expense called the Mourner. This work was written by Mr Grovenor, & is very acceptable to persons under the influence of the violent impressions of this Passion &c. &c. &c. (its Character)

That Grief is most keen from the Death of Children.

1st It is common to remove the Survivor from the body & home of Lost friend or Relation in England: this is unnecessary, as the distressing Association of Ideas with the place & different objects will soon wear off. 3d It is highly improper to follow the body & departed Friend to the Grave — this custom should be abandoned. Graveyards should never be allowed in Cities; they make the mind hollow to Breathe the Idea of Death, & renew unnecessarily the Idea of Death Grief. The Patriarch Abraham was well acquainted with the impropriety of this, hence he requests not to have . . . . . buried near him, but to purchase some Ground, & bury her "from out of his sight" — 4th Where there is an absence of Sleep from debility, Opium

Opium should be used; I have frequently used it with the happiest effects. 5th. After the first impression of grief is over, great care must be taken, never in Conversation to mention the name of the Deceased, or any Circumstance which may lead to a recollection of him; & great care must also be taken to use Conversation by no means pleasant, light, & airy; it is an Insult to recent grief, & is really the Mingling of Vinegar & Nitre, or as it should have been translated, an Alkali. Where Fever Hysteria, Hypochondriacis or Dyspepsia follow grief, these are to be treated as when they follow any other Cause.

Grief is wisely implanted in our Breasts to guard us against the danger of exposing to such Evils as will cause it, & to impress on our minds a confidence in a future world.

Next of Anger. This Passion is also implanted in our minds for useful purposes. It is a disease only, when in excess, or in cases where induced by improper objects. Anger is generally proportionate in degree to the Excitability of the System. It is divided into three grades - Anger, Rage, & Fury: This last is very violent. In all cases of Anger there is a determination of blood to the Brain; which shews itself in bleeding at the Nose, increased flow of Saliva which is attende with

foaming at the mouth, & red flushed face; fierce & wild staring Eyes; uncommon volubility, or total suspension of Speech, great agitation of Body & mind; Raking of Bile sometimes tremors, Hysteria, Syncope, Asphyxia, apoplexy, & Death. Some cases have occurred of Death from the Excessive force of this Passion.

The Remedies for this Passion are, Physical & moral, as well as Religious. 1st. A sense of the weakness & folly of the violence into which it betrays one should restrain it. 2d. A Sense of Responsible to the Manners of a Gentleman; Violent Anger is inconsistent with Politeness or gentility. Why is a man called a Gentleman? because he is gentle in his manners. 3d. A person ought never to betray that he is angry by speaking, he should be silent till his passion subsides. Silence has a great influence on it: A certain Divine recommends to say the Lords prayer before a person speak in a passion; he says a person will never say an improper thing after that precaution; if the person is unwillingly or unwilling to say this, let him count 20. 4th. Anger should be opposed by another Passion, or Fear, this is an Antidote to Anger. The sight of a Bloodhound cure the most turbulent Madman. Love has in some cases overcome it, as in the Case I mentioned where

Phetis thus cures her son Ulysses. 5th When there is a highly stimulating cause, cold water is a very excellent remedy; it will cure the most malicious dogs when fighting; & I have lately known it produce a cure in a drowned girl; a bucket of cold water was thrown over her, & cured her completely. Dr Arbuthnot very properly recommends a milk & vegetable diet to such as are very irascible. Ardent spirits increase in a very great degree the irascibility. Alexander would not have slain his friend Clytus had he not been under the influence of wine. The most terrible consequences result from it when persons are under the influence of strong drink. An opiate may be given in some cases with advantage. 10th Persons subject to anger, should avoid loud & long speaking: In the new jail no criminal is allowed to speak loud. Thirst is said to dispose to anger; & should be avoided, and everything which tends to increase the excitability of the system.

Next of <u>FEAR</u>. From the many dangers in the world this passion is wisely implanted in our breasts for useful purposes, to guard against injuries. It is disease only when excessive, for improper objects of fear & where it occurs on improper occasions. These improper objects of fear are, Cats, Dogs, Spiders, & other —

animals, Darkness, Ghosts, Hobgoblins &c. The only proper object of Fear are, Sickness, & Death. Immoderate fear is attended with quick Respiration, great flow of pale Urine, Hysteria, Globus Hystericus, Deafness, involuntary discharge of Urine & fæces . . . Atonia . . . Convulsions . . . Mania Epilepsy, ~~Apoplexy~~, Asphyxia, Syncope & Death. A very singular property of fear is, its influence on the hair; these effects have long been noticed. It causes it to stand up from the head. Virgil & Shakespear long ago noticed this,

"Ad sidera tollunt comæ et vox fauces hæsit." (Virgil.

"I heard a tale unfold,
"Whose lightest word would harrow up,"
" . . . . . "

I have heard of a Lear when a mans hair became white from fright occasioned by a troop of Jets at night. And Dr Burke mentions a case where this was produced by the fright occasioned by the Earthquake in Lisbon in a mean in Portugal.

To prevent improper fear from improper Causes, Children should be made to go to bed early in the dark. by this means the association is destroyed which renders them susceptible of it; Darkness, however, appears to be

connected naturally with fear: Mr Burnie tells us that in his Soldiers, in his voyage to the Source of the Nile, never were afraid till evening came on, but here it was fashionably affected by Cold, for the difference between the Temperature of Night & day in that Country, is near 40°. Sometimes the patients become Insane from this Cause, this is most commonly the Case where it is accompanied with Guilt. I have known two Cases of Syncope in persons convicted of Stealing: In one it would have proved fatal but for a great quantity of Laudanum. A Similar Case is recorded in the New Testament in the Death of Ananias & Sapphira; this has been attributed by some to an interposition of a Supernatural Cause in Revenge of the offence of Stealing: And it has been observed that all our Saviours Miracles were performed with Benevolence, but that this one by Peter was Vindictive; this is not the Case. The Death of Sapphira can readily be explained by Sudden fear, by Peters observation made to her, of her husband's death and the prediction of her own, the effect produced from a Physical Cause.

The Evil of Fear; but first, it should be prevented in Children by making them accustomed to those objects of which they are generally afraid as Darkness &c. All Servants should be expelled from Families who frighten

Children by Tales of Ghosts, Hobgoblins, Fairies &c. If there be any necessity to work on their Passions, we may substitute a more Innocent object of Terror; a Ceremony succeeds — then degraded little Creatures will be as terrible to a Child as a Ghost, or any thing else of the kind; and the danger will wear away as the Child advances in years. Where Children are afraid of horses, they should be taken to ride in a Carriage; and if afraid of water should be made to cross it. It is remarkable that when they are not broken of the Idea of these things being dangerous, they cherish them ever after. — Thus (Czar) Peter the Great, was born with Hydrophobia; a natural dread of water; he formed in Early life however, a design of visiting Foreign Countries, & knowing that this would be an obstacle in the way, he determined to Conquer it, & ordered his servants to bear him by force into a boat; he remained in a state of Syncope till he crossed the River, & then recovered; this repeated, had the desired effect; insomuch he was able to become not only Navy, but also Seaman, with so much pleasure to himself, & so much advantage to his Country. The fear of improper objects may also be overcome by substituting that for proper ones: Thus Paschal said "I fear God & know no other fear!" Where fear of Death occurs in disease Cleanliness has a great influence in curing it; also Tonics

and Gentle Exercise; for it appears to arise from an accumulated Excitability & debility in nervous. The fear of Death should also be removed by reading some good authors, as Drelincourt, Sherlock, & some others. One thing tends very much to abrect the fear of Death, that is, frequent escapes from it: An old Soldier who has been in 20 or 30 battles, has not a jot more of Courage than a young one, but his fear of Death, from having been taught there is less danger than he apprehended. I am disposed to believe this from observing that old Africans are as fearful of Death from sickness, as other people. To avoid this fear, conversation on the subject of it should be avoided. Thus the Man Gris de Castellaux & Gent. Mirande (see an old in Miss Williams account of France) avoided all fear of Death in their Confinement in a Parisian Prison, where they expected every moment a Summons to the Guilotine, by conversing on indifferent subjects: it is strange they were confined 6 months together, & never one spoke of the subject of their Execution. To remove the fear of persons about to speak in public, Opium is very useful. Mr John Hunter never delivered a Lecture till he had previously taken 20 or 30 drops of Laudanum: holding the Breath has been said by some to have this effect. To elevate fear

of danger in a Contagious Epidemic, never use Smelling bottles or any preventatives; which are difficult to procure or easily forgotten. Deembrock says he used to prevent the Plague by washing his face & hands every morning in Vinegar; one morning he was called out early to see a Nobleman, & forgot to do this; he recollected it in the Sickness Chamber, & had an attack of the Plague. I think it highly probable the disease was induced by this Cause, & not by receiving the Contagion. I am more disposed to this opinion from having been taken with the Yellow fever first after being much scared by leaving off . . . . . When any prevention is to be used, a low diet is to be preferred, this the calls of appetite will prevent our forgetting, & it is always readily procured. 2d method to be used by a Physician to obviate the fear of mortal effluvia is, to be constantly reading, writing & drawing if he is not engaged with his Patients or compounding their medicines. Fear is the Child of Pettiness, & this should be avoided. 3d He should direct himself by the expectation of wealth, to be cleared from the distresses of his fellow Citizens; this will inspirit an Equanimity & vigor to his mind, which the desire of wealth never could impart. Dr. Patrick Rafael mentions that

that this in a great measure preserved him from the Plague in Aleppo. 4th. From a firm reliance on the protection of Heaven, and a Conviction of the goodness of Providence.

Lecture 69th

Envy and Malice. These two Passions tho' not perceived externally, exert a pernicious influence on health. They seldom act on outer parts, but like Hypo-chondriacism are deeply seated, & produce very ill effects on the System. Job says in the old Testament, that "Envy produceth Rottenness of the bones". Lord Bacon has very prettily observed of it, that it knows no holi-days.

We come next to speak of LUST. The intemperance of this appetite is a moral Evil. Dr Cullen has called it a local disease. Like the Passion of Love it was implanted in our Breasts for the useful purpose of causing the propagation of the ~~the~~ Species. Excessive gratification of it produces diseases both of Body & mind.

The diseases produced by it are, Tremors, Hypo.-
Nocturnal Pollution & Insanity, Furor Uterinus.-
For an account of the diseases brought on by the electri-
-cal practice of Onanism, I refer you to Tissot.
he mentions frequent Cases of Pulm.ry Consumption.-
Hypo. Immoral Weakness, Furor Uterinus, Tetus
Dorsalis, Dyspepsia, Vertigo, Mania, Epilepsy &
Death.

The Causes which tend to produce excess of
Lust are, 1st. Excess in eating especially stimula-
-ting food. Fullness of Bread, is said in the Old
Testament to have brought on all the Pollutions in the
Cities in the Plain. It is one of the most frequent
remote Causes: A diet of fish & oysters has been
said to dispose to it more than any other, because
Fishermen generally have so large families; but
I should be rather inclined to attribute their propen-
-sity to their healthy occupation, being one which
is not debilitating. 2d. Excess of Liquor is also
a frequent remote Cause of it; hence the excuse
our Patients give for having acquired the Venereal
Disease, they were in Liquor. A young Gentleman
a Patient of mine who had acquired the disease, in-
formed me it was entirely owing to an Intemperate

folly of Lust, in consequence of Liquor which led him from the Tavern to the Brothel. 3d. Indeed, nothing is more Conducive to Lust than a Sedentary Idle Life; this is only the Case tho' in the Male Sex. In females the reverse is true; her Exercise is said to increase it. Linnaeus ascribes the excessive Lust of female beavers, to the motion of their hinder Limbs, which their ablution requires. It was probably from this reason that this ablution was not allowed to be followed by women in Greece. This passion is not increased by the Gout in women or in men; in the latter from Rest, there appears to be an accumulation of Irritability, which is determined to the Genital Organs. This takes place only when the Patient is confined to his Chair or Bed; hence too probably arises the Venereal desires of the Hypochondriacs. 4th In fevers also, in the Colon of them this Passion is much increased. Convalescents from the Plague, yellow fever, & other acute diseases often have it to a great degree. A young man informed me that during his Convalescence from an acute disease, it was with difficulty he was able to bear the sights of his Chamber maid, owing to this Circumstance. The great Effeminacy of the Italians, does not prevent them from being much devoted to the Indulgence of this Passion. There have been Cases of persons marrying their Servants who Nursed

them during their illness, owing to the Expansive accumulation of Morbid Venereal Excitability. The Celebrated Mr. Howard died thus; & I have known Rather Instances. Thus unequal Matches have probably the effect of a Sudden Paroxysm of Lust, owing to this greatly accumulated Excitabilitty. After the Plague & yellow fever, it is particularly Common. There were 12 Matches among the Convellescents from the Yellow fever in Bastile Hospital in 1793; & many more were detected in a Criminal Intercourse during the prevalence of the disease.

The Remedies for it are, in the first place, - Matrimony, & fidelity to the Marriage Vow: Where however, from Youth or inability this is impracticable, a Low Diet should be adhered to. Dr Starke say that While he lived on Bread & water, he felt no remains of Venereal Desires; but When he returned to Bread and Milk, this returned somewhat: When he Eat Animal food, 6 or 8 ℥ of Gorse with a Sufficient quantity of bread, he felt their activity Sensibly. Plutarch tells us that the Priests avoided the use of Salt to escape the influence of this Passion. 3d. Labour, this should consist of constant Exercise; it acts by increasing Expirtment at the expense of Excitability. Long Journies would be very advisable, & in Men an Horse back, but for Women a

a Carriage is to be prefered, as the former mode of Riding probably from the position of the lower Limbs, has a tendency to Increase Venereal desires in them; the recumbent posture or Sitting. The Company of Modest Women is of great Consequence; it not only polishes the Manners, but really is of great advantage to the Morals of Young Men. I have seldom Known a Young Man of very debauched Morals, who had early been Introduced into Ladies Company. Here we do not as in looking at Bath Women and Outer Women think only of the Sex, as La Bruyer says is the Case; we learn how to connect the Idea of Women with the Cap & Petticoat. The Company of Ladies tends much to purify the Imagination of Young People.

5th. Are there any Medicines which act Specifically in Curing Lust? Castor Oil has derived its name from this Supposed quality; but I am disposed to attribute its effects in this Manner entirely to its operation on the Bowels. Camphor has been Used by the Monks, with the same view; but as Camphor is very inefficacious in removing Hypochondriac Symptoms, of which this is one, I suspect it merely acts in this Manner. That such a Medicine may exist, I have no doubt; & that Man who discovers it will deserve well of his Country & the world. Perhaps the use of the Cold bath might be

attended with advantage, by inducing Direct Debility. 6th The pursuit of some Study, or business requiring much attention: this is a very excellent remedy for it. Sir Isaac Newton prevented it by his close application to ~~Examinations~~ Mathematics, which is best calculated to . . . it. Sir Isaac & Dr Fothergill who were both Bachelors, lived to an old age, the former to . . . the latter to 90; both declared on their Death beds, they had never violated the 7th Commandment. 7th To Excite some Active Passions in opposition to it; hence probably the reason why we find Savages so little addicted to the Gratification of it: the desire of Military Glory here drives every Idea out of their minds which is unconnected with that. That their deficiency in this respect does not depend on their mode of life, is inferred from the same mode of life not producing this effect in other persons. Some Surveyors who lived in the woods in this manner, informed me their Venereal desires were as before, because they wanted the Stimulus of this Passion for Military Glory. 8th The Venereal appetite may be checked by Banishing Lascivious thoughts, books & Prints; also by refraining a too free Dalliance with the Female Sex, but above all Lascivious Conversation. A young Gentleman who applied to me for the Cure of the Venereal Disease

informed me in the history of his Complaint, that he had acquired it by being invited out to dine; he had drunken freely & the Conversation was kept up in an obscene manner, for a long time, that it worked his Imagination to such a pitch, that it induced him to go to the Brothel & Commit the deed that at once Polluted both his Soul & Body. 9th According to Dr Boerhaave a fit of Laughter will Cure a fit of Lust. 10th Certain Notes of Music have been found to produce this effect in removing a fit of Lust. L. Lobthy, a Salivation should never be neglected when the above fail. This I have in one Case seen produce a Cure of Seminal weakness brought on by onanism.

Dreams.

These are Dreams of the Mind They have been supposed to be seated in the Immagination, but all the other faculties are affected, & perhaps the Immagination the least of all, as this is seldom awake when the rest are asleep.

Dreams depend on an unequal Excitement in the Brain, which is sometimes so powerful in the Will, as to produce Corresponding motions of the Body, as appears in Somnambuli, & in those who talk in their sleep: The reason of this has been explained in our Physiology. —

The Exciting Causes of Dreams are, first, —

an hearty Supper, or a heart of Supper, if it has been customary to Eat before bedtime. 2d The Position of the Body in bed has an Influence on Dreams. 3d Tight Ligatures on the Neck or any part of the body. 4th A Tight Night Cap has caused them. 5th The Stimulus of Faces, or Worms in the Bladder or Rectum is a very frequent Cause of Dreaming. 6th External Sounds or Noises or Sense of them Caused Dreams. 7th Light & certain other impressions on the body. The frequency of Dreaming in the morning is owing to the fullness of the Bladder, impressions of Light, Noises &c. To these Exciting Causes we may add hunger & Cold.

The Remedies for it are, Labour or Exercise, walking &c. The Country people seldom dream owing to the Exercise they take thro the day reducing the System to the Sleeping point. When Sleep is perfect there is no dreaming. A Surveyor who was a long time in the Woods, informed me that he never dreamed; owing probably to this circumstance. 2d Avoiding eating a heavy Supper before bedtime; or if Supper is customary avoid going to bed without; and also avoiding all the other Exciting Causes that have been mentioned. If there be much morbid action that Causes it, Bloodletting should be employed ~~it~~ to lower it; & if it be accompanied with a febrile action, an Anodyne will effectually prevent it. Another Remedy

remedy is, to avoid laying on the back; The Incubus (Night mare) always attacks persons in this Position. A low Vegetable Diet always prevents dreams. Mr Stuart the Pedestrian informed me that for 2 years during which he lived on Bread & Milk with Vegetables, he never once dreamed. I have known 2 Cases of Somnambulism Cured by a Tub of water placed in the Room.

Phantasms. Before I leave this subject, I will say a few words respecting the imaginary appearances which are called phantasms. These are morbid excitement in the Mind, supposed by the person to result from impression on the Sensorium; but this is deception; they do not depend on any such impression, but on irregular motions in the Brain. They are appearances of Friends generally before the Eyes, & have been erroneously supposed Premonitions of Sickness & Death; it is true, they generally occur when the person is not in good health, & Sickness may afterwards be incurred, but they are not to be attributed to supernatural Causes. They sometimes appear as Sounds in the Ears, here the Person name is generally called (as this is most familiar to him.) I have known several Instances of it. . . . . .

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. . . . . for example, a Man wants a Knife & asks for a bushel of Wheat; pain, in like manner, from Calculus in the Bladder, will produce Itching in the Glans Penis. Tinnitus Aurium is a Convulsive motion of the bones of the Ear, & if increased, may, by producing impression on that part of the Brain where Sounds are perceived, constitute a voice & the person's own name being more familiar, explains why this ~~[illegible]~~ impression is commonly the person's own Name. — It is a disease, & may be cured by the Remedies for moderate morbid action in the Brain.

It is remarkable that Phantasm never appear to more than one person at the same time; this persuades it to be a disease; & that no actual Impression is made on the Senses. Bailey (Evidences of Christianity) has properly distinguished between the Miracles of our Saviour & those Phantasms; he proves them to be realities, by their being performed, some to 3, 12, 100 or 1000 Persons.

With this Gentleman we finish our account of the diseases of the Mind. I feel as if I had been Sailing in an Air Baloon, for I have been in a Region where I could not avail myself of Pilot or Compass. The Subject however is extremely

Interesting. Phrenosophy is the dominion of Reason over Matter; But what must the nature of that Science be which gives dominion over the human Mind? Permit me to recommend it to your Investigation. I have merely pointed out to you a new distant Country, the Cultivation of which will be highly profitable to your selves, & useful to others. I shall dismiss the subject with a single remark that, no part of the Theory I have advanced interferes with the old opinion of the Immateriality of the Mind. I have only said that all its operations depend on Impressions made on the Bodily Senses & consequent Motions in the Brain in this State of our Existence. It does not pretend to explain how these operations will be performed when the Soul is separated from the Body. The dispute is an Intricate one, & I do not feel disposed to decide whether the Mind is Matter or not. It is in either Case of no Consequence to Christianity; no more than the different opinions with respect to the Resurrection; whether we Enter immediately after Death into a State of future happiness or Misery, or whether we are all to arise at the Same time; In the Latter Case the Interval will be the Same exactly, as we shall have no Consciousness of Time.

Syncope. Comes on with a dimness of sight, a Noise or Tinitus Aurium, Quick Pulse or an absence of Pulse; difficulty of Respiration, Pale Urine, Cold Sweats, a cessation or impaired function, an absence of almost all action &c. & as recovery comes on great anxiety. In some cases Vomiting occurs, but this is not uniform; Convulsion is sometimes a symptom of Syncope, & it is of Consequence to distinguish between this & a Convulsion fit, as the latter is much more dangerous. Epilepsy often occurs in Syncope; Women are more subject to it than Men: it occurs at every period of Life, & does not necessarily shorten Life. I knew an old man of 90, who had been subject to fainting fits the last 40 years of his life.

Its proximate from Local & General Causes. The Local Causes are, an Ossification of the Heart & Vessels, also an Aneurism; these are Incurable & Can only be palliated. 2d Such as act thro' the medium of the Brain, as Hemorrhages, violent Passions & Emotions of the Mind; Great Pain, or a Sudden Perception of it as after Parturition; Inanition, Wounds, Operations of Surgery, Wounds, Mortifications, Sights, Sounds &c. disagreeable Odours, Cold Water, great heat, & Earthy

Offensive Substances taken into the Stomach. Of the Passions of the Mind, Joy is the most frequent Cause of Syncope. These Causes all act by inducing Predisposing Debility.

The Proximate Cause is an absence of Action. When from the Local Causes we have mentioned, the disease Cases only be Palliated; When from General Causes, it may be Cured.

The Remedies for Syncope are, 1st A Recumbent Posture. 2d Certain Stimuli to the Senses, as Volatile Salts, Burnt Feathers, Snuff, to the Nose; these Stimulate the Lungs, hence a Long Breath when they recover: Water ~~&c~~ (Cold) dashed into the face; here it Stimulates probably from its relative Temperature, being Warmer than the body at that time. If these fail Certain Stimulating Clysters & Frictions are to be used: Cataplasms must be applied to the feet. Drinking Cold Water is often successful When it arises from this Cause (drinking Cold Water,) Laudanum should be used. Syncope may be prevented (when caused by ~~strong exercise~~) by grasping the vessel out of which Cold Water is drank (or about to be drank) in the hand a few minutes before, also by rinsing the mouth before you drink. When Syncope proceeds from heat, the warm Bath relieves it. Mr Barnie says the

Debilitating effects of heat at Mapsua are alleviated by this remedy. This shews Gentlemen action of medicines as to the different media by which they are exhibited; thus heat acts very differently in air from what it does in water, sand, salt, &c. So Pallisch syncope from Polypus, aneurism, or ossification of the vessels near the heart, occasional A. S. purging & low diet are to be under and perhaps the return is best prevented by the Cold Bath.

Death of Asphyxia.

This is an absence of all motion resembling death. The Causes of Asphyxia are, violent Passions & Emotions of the Mind Certain offensive substances taken into the Stomach. I have known a Case of it from Dough in in the Stomach, when preparations were made for Dissection, the Patient recovered. A certain degree of Cold very frequently produces it; this we see every winter in Certain Animals. Contagious, & fixed air, with other offensive Gasses from Charcoal, wine fermenting &c. Other Causes of which produce suspension of respiration, & Circulation.

There appears to be a Certain degree of Motion in the Brain in many Cases, producing a kind of Dreaming the persons then generally dream of something connected with the future State of Existance, & they are said to have been in

a France. These dreams are supposed by some Rebel-
-lations. They are not. In some Cases of Asphyxia the
sense of hearing is perfect, & memory also. I knew a gentle-
man who lies in this State, & distinctly heard the arrange-
ments made for his Interment: it had such an effect
upon his mind that he revived, & Recovered, & Lived
20 years after. In almost all cases the sense
of hearing is the last that disappears, & in recovery the
first that returns. Dr Rush has read a Lecture of Asphyx-
-ia which proved this very completely; it is published
in Lectures on Animal Life, Green Bede.

Lecture 70th

The Cure of Asphyxia should be different
according to the Causes which induce it; but I have make
one General remark to be attended to, That in applying Stim-
-uli, they should bear proportion to the quantity of Life.—
If it proceed from intense Cold, the heat should be mod-
erate at first, & gradually increased. Mr. Hunter very
justly makes an observation, That there exists a Law
of Life of the Animal Oeconomy, which renders it

it necessary to adhere to this Caution to proportion the degree of heat to the quantity of Life. He says that if a body be taken out of the Snow, it may be supposed to be about 32°. here the application of River or Pump water is about the proper temperature 52°. & it should be immersed in this by degrees, till it bear the heat of a common sitting room: Gentle friction should also be used.

The above remark of heat is proved to be just by the analogy which obtains in other Animals as bears, which sleep during the cold weather. The moderate heat of Spring which is increased gradually, is well adapted to their Vivification, whereas if heat is suddenly applied, Life is destroyed.

Where Asphyxia is produced by Contagion, reference must be had to Pure Air, & other Gentle Stimuli. Dr Hunt relates the Case of a Sailor in a State of Asphyxia, from the impure Air of the hold in the Ship, who was revived when carried on Shore for Interment. The same practice is to be used in the Case of Fixed Air, & other Deleterious Gases. Inflating the Lungs has been found useful in the Case of Asphyxia from Drowning. Here perhaps Dephlogisticated Air would answer best, as Dr Goodwin has proven that apparent Death

in this Case proceeds from a want of this necessary gas, which produces the Red Colour of the blood in the Pulmonary Artery.

The Indications of Cure here are 1st Heat and Pure air: the first may be applied by the Tepid Bath, by a person in health getting in health in Bed with the diseased, by being placed in a warm room &c. — Frictions are also to be used. The bowels should be stimulated, by Injections, as of Tobacco &c.

Dr Goodwin has proved the small quantity of water which enters the Lungs during drowning is not the Cause of Death, but as it may impede Respiration it is highly proper to eject it as it frequently enters the Lungs: These should be Inflated in the manner recommended by Dr Goodwin; or if his Apparatus be not at hand, thro' the Nose; after this the air should be evacuated by pressure on the Thorax, and this process should be repeated as Signs of Life appear. Electricity has often done service. There have been many Cases of recovery by those means. I have never Known but one Case where there was a recovery after the patient had been 10 Minutes under water; but there are accounts of Cures performed after a much longer Submersion. Mr Hunter says Death in this Case, results from a Disorganization of the parts of the body, from the

* Dr Carpenter told me that when moving the dead in Baltimore a friend of his, who had been buried soon after a sudden death, was found laying on his face in the Coffin. It is probable the warmth of the Ground revived him, but died as soon as he had absorbed all the Oxygen in the Coffin. R. C.

Efforts of the Animal to preserve Life; that if an Animal Could by this means be Killed without this disorganization, they might be restored after a very Long time. I think his opinion Plausible. The Body is Specifically lighter than Water, Why then does it Sink in it? I answer from the — firm Contraction of every part of it before Death, it is rendered Specifically heavier: This Contraction is seen very evidently in the Fish. This Continues for Several days after Death. Putrefaction is therefore to be considered as the only certain Sign of Death, & the Pallor & Color of the body which accompanies it. But if we admit the putrefaction of the Excretions in the body in Sickness or during Life, we cannot consider this as a certain Sign of Death. Are there any other certain Signs of Death? A Relaxation of the Sphincter Ani in Fowls, is a certain — proof of Death, the Good Woman tells us. This relaxation succeeds the Stiffness of the Muscles which appears to be an Evanescent Symptom of Life. Convulsions Sometimes Come on during the recovery.

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In all Cases of Sudden Death from — General Causes, a premature Interment Should be avoided. — There have been many recoveries after every prospect had vanished; & I suspect that many have been Interred alive.* — There have been Instances of recoveries when Interment has

has been just about to be performed.

We pass now to consider the Diseases of the Glandular System, and first of the

Venereal Disease.

This, tho, principally confined to the Glands, affects occasionally every different parts of the System. It is the Prerogative of God, not of man, says the Excellent Dr Sydenham, to punish the Criminal indulgence of the Passions.

Persons afflicted with the Venereal disease were treated formerly as the Out Casts of Society; & the Hospitals constructed for their reception, were rather places of Discipline and punishment, than Institutions for the Cure of disease: And even to this day, Venereal patients are in some Countries either abandoned by their friends, or else acquire their sympathy on very hard terms. As there is only one way of destroying Vice, by forgiving it; so there is only one way of Eradicating the Venereal disease from the World, & that is, to induce patients to apply early for Medical Aid when they are afflicted. This divine Humanity has obtained most in London, & this disease has been attended with less serious consequences there than in any other part of the World. In Louvain on the contrary, the regulations of the Hospitals under it necessary before for Patients

before admission, to undergo a Corporeal punishment; & in no part of the World is the disease so fatal & terrible in its ravages as in Louisiana. The venereal disease has attempted to be abolished from the British Navy by deducting 15 — Shillings from the wages of every Seaman affected with it, to pay the Surgeon for his Cure: The Consequence of this law, the Sailors have terribly affected with it, by neglecting to apply for relief early enough, before the disease had affected the whole System. This law has been banished from the British Navy, & the consequence is that not a Sailor hardly, is incapacitated from doing his duty in consequence of this disease. An attempt has been made some years ago, to introduce a similar Law into our Navy, but upon the strength of this part of the British Navy, it has been abolished. . . . . .

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. . . After this Introduction Gentlemen, you will be induced to consider think it a part of our duty to cure this disease as much as the Gout or Pulmonary Consumption, more especially as it is a very common disease in the U. States.

It appears first in form of Gonorrhoea. 2d of Lues. The Gonorrhoea is of 2 kinds, Benigna and Virulenta. The Gonorrhoea Benigna proceeds from sexual

Causes. 1st Difficult Coition. 2d Bruises. 3d It is sometimes a Symptom of Gout. Dr Clark relates a Case in the 3 Vol. of Essays Physical & Literary of Edinburgh of Gout attend with Gonorrhoea. This may be known in Gout, attended with Gonorrhea, from a Kind of Sediment in the Urine which yields a Sort of Caly. Sauvages in the first Edition of his Works, mentions it under the name of "Porda" Gonorrhoea Podagra". He has not inserted it in his subsequent Editions. 4th It proceeds from a Suppression of an Intermitting fever; of this Dr Claypole of S. Carolina informed me of a Case. 5th It sometimes proceeds from the violence of a New Impression after long Confinement to one Woman, or abstinence from any; hence keeping it a frequent thing in Men beyond 50 who turn Ramblers.- Lastly, it sometimes occurs Spontaneously in Children.- Underwood is the only Writer who notices it. It occurs during Teething.

The Gonorrhoea Virulenta is produced 1st By Impure Coition. 2d By lying in a Tainted bed; of this I have Known Instances in this City. 3d From a tainted Wet nurse; of this I have Known an Instance in a boy 12 years old in this City. 4th By wearing Infected Breeches: And Lastly I have Known it induced by hard drinking, or rather revived after it had been Cured.

The time of the appearance of Gonorrhea, after the Infection has been received, varies, from 3 days to 12, & some say longer. I have known 22 days intervene before Chancres were produced. There are cases of the Poison lying dormant in the system a longer time before it is excited into action; thus we hear of women infecting men when they have no marks of disease themselves.

Where the disease occurs in its most simple form, it may be cured by the plentiful use of Demulcents or Mallows &c. Lotions of Lead water & Laxative Medicines A very excellent injection for the complaint in this State is, according to Hunt's Recipe as follows. Rp. Unguent. Mercr. ℥ij. G. Arab. ℥ij – the yolk of an Egg, & ℥iv of water.

I shall now make a few observations on the Symptoms of the Disease. 1st Chancres. These are produced by Virus applied from without; they are in general easily cured by dry precipitate, or Lunar Caustic, or by an ointment formed by mixing precipitate with Cerate, in the proportion of 1/4 precip. to 3/4 Cerate. Swelled Testes. Sometimes occur; They are cured by Vene Section, a Suspensory Bandage, Rest, Cold applications, Gentle Purging &c.

Sometimes BUBOES occur, they may be Sclirpathic, but are sometimes Symptomatic, & are morpe troublesome Symptoms. Mercurial Ointment above & below the

℞ Repeated Blisters is the only sure Direction for Bubos when forming. R. C.

Gland should be applied, also Poultices to hasten the Suppuration cannot be prevented; but we cannot endeavour to prevent this by Cold Water Vomits, & repeated Blisters over the Swelling.* I have heard of the Good effects of Electricity. Where these do not answer, I know of no Poultice so well calculated to hasten Suppuration, as the Ley Poultice, made of Bread, Beer, & Ley, Sweet Oil added, called from its inventor Mr Fumerts Poultice. These Tumors should never be opened with a Lancet, the edges become Callous & very troublesome to heal; they should be allowed to open of their own accord; Volatile Liniment will assist this

Phymosis, sometimes occurs, & is a troublesome Symptom of Gonorrhea. To prevent it, the Prepuce should be kept clean by washing it with Wine. The matter will sometimes Collect & form ulcers under it, if this be neglected. An Operation is sometimes necessary for the Cure of this: And in one Case I have seen Circumcision performed for its Cure.

Para Phymosis is also a troublesome Symptom It may generally be cured by a Lotion of Saccharum Saturni dissolved in Cold water. The Lax is has sometimes Cured it of pressure. If all fail, the Operation must be resorted to. I have a Mortification which destroyed 2/3 of the Penis, occasioned by neglecting this Complaint.—

Chordee. Is an unpleasant Symptom. Remedies are Opium, light Drawers, & avoiding a full Bladder. This last is of great Consequence. These are the most common Symptoms of Gonorrhea: Sometimes however Ulceration in the Urethra, & Gleet succeeds: But Gleets frequently proceed from simple debility in the Urethra. - When accompanied with Ulcers, Balsams are useful: The balsame Copaiba answers very well: Rhyme weed tea, Bark Steel, Topical Cold bath; also a Solution of Sacharum Saturni, or Corrosive Sublimate very weak. Injections of Port Wine or Claret produce much Good. Also an Injection made as follows, Rx. Tach. Sat. grxij Cor. Sub. grj Aq. Font. ℥ij - This is a Quack Remedy, but it answers very well, and has gained much Credit by its Cures. Harthorn is sometimes added, gtt. xx, if it be too strong, it may be diluted. It is serviceable too more especially if Ulcers exist in the urethra I have known it Cured by a grain of Calomel taken every night at bedtime. Mr. Hunter very properly observes that when it proceeds from simple debility, there is no danger of Infection, I have therefore advised Matrimony in many cases with the happiest effects.

There is another Kind of Gonorrhoea Known to Nosologists by the Name of Gonorrhoea Dormientium This occurs during the Night; it is a very unpleasant

Symptom; is often a Consequence of the venereal Disease. but it often occurs also, "Inter homines maxime castos."

The following Remedies Cure it: Avoid Laying on the Back. I knew a Case where it occurred only in this Posture of the Body. 2dly Avoiding Costiveness. 3dly — Sometimes it has been relieved by taking Opium at Night. Also by Cold Water to the Penis: And Lastly by Matrimony.

Stictures of the Urethra. are a very common and distressing Symptom of Gonorrhea. For on accounts of the terrible Consequences of neglecting them, I refer to Bells Surgery. They are to be Cured by Bougies; first small ones are to be used, & the size gradually increased as the Stricture becomes dilated. Mr Hunter attributes the frequency of Strictures of late years, to the expensive use of Sugar of Lead in the Cure of Gon.a, & from the Costiveness of the Infectious. —

Dr Astruck takes Notice of the Bloy Gonorrhea. This occurs after Infection. There is no Running but a violent — Pain & irritation in the Urethra attended with a frequent desire to make Water; it is a Common Symptom of Hypochondriasis. Cured by Vene Section, & a running. — Mr Hunter recommends a new infection; I do not. B. I. answers.

Gonorrhoea appears to be propagated of great Malignity

in some places. In Batavia I have heard of its being attended with the most distressing Symptoms.

Lues or Pox. Without delivering an account of the Symptoms of this disease, which you will find accurately described by Authors; I presume to remark that Mercury is its Radical Remedy; that this may be used in a great variety of forms the Mercurial ointment, it need not but seldom be carried so far as to produce Salivation. for internal use I prefer the Quick Silver (Blue) Pill as it does not operate on the Bowels; & of course more of it may be introduced into the System, than any of the rest. 2, 6, or 10 grains a day may be given: it possesses besides, the advantage of seldom purging, that more of it can be introduced into the System without Salivation, & Dirrecy is often of great consequence to patients with this disease. When, however we wish from the obstinacy of the Case to produce Salivation, the Saline preparations of Mercury may be resorted to as, Calomel & Corrosive Sublimate.

When Warts occur they should be Cut off, & dressed with Precipitate ointment. They sometimes rise and make thus necessary a 2d and a 3d time

Venereal Eruptions on the Skin. A very excellent ointment for this is, the following ℞. Quick Silver ℥j.

Nitric Acid ℥ij dilute & add the solution to a pound of Hogs Lard for the common Citrine ointment answers very well; this made into an ointment is very serviceable useful. In some venereal cases I have heard of Mercury exciting an Inflammation in the Bones, face & many parts of the body: here the decoction of the woods without Mercury may be used. In all cases where Mercury is used it is of consequence to attend to the Diathesis of the System; if the patient is much debilitated; & if, added to this, the Mercury acts on the Bowels, Opium should by all means be added, & a generous diet & Bark used, without these precautions it will have no avail, but on the contrary, if any fever be present bleeding has been proved necessary. Nitric Acid has of late been used in this disease; of it I can say nothing from my own experience, as it is lately introduced into practice & I have not had an opportunity to try it. I have however heard that it begins to get out of repute in London where it was much used.

Sometimes Lues is combined with Scurvy, Itch, Rheumatism, Gout & Hypochondriasis &c. In the first case with Scurvy, Mercury cannot be used with Scurvy Mercury cannot be used with Safety, & we must first Eradicate the disease before we attempt to cure of Lues; and so of all the rest. Sometimes Hypo. is mistaken for this disease, & sometimes from

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the disease from Mercury. Dr Hawkins has called the former, "Modelle Pox". He told one of his Patients, a Gentleman who had formerly had the Disease & in a fit of Hypochondriism, suspected he was very ill of it, that he really had the Pox and the worst kind of Pox which was Incurable; that this terrible disease was beyond the reach power of Medicine: its seat was in the Imagination! existing only in Fancy.

Sometimes Conceit will produce actual pains in the Nose & Penis in Hypochondriacs. Where it is accompanied with Rheumatism, Bleeding Purging & Low diet, & other Remedies for the disease must be used, and great Care taken to avoid exposure to Cold, while the Patient is using Mercury.

Lecture 71st

Schirrhus.

This is one of the Terminations of Inflamation; and is generally a disease of the Lymphatic Glands: But in some Cases, Schirrhus is a primary disease of the Glands, & occurs without previous Inflamation. They occur often on External, but I suspect more frequently in Internal parts of the Body; & are generally Incurable. In some cases of Dyspepsia, the Stomach after Death has been found Schirrhous. In some Cases, the Liver, Spleen, & other Viscera are found in this State.

The Remedies for Schirrhus are, when Externally situated, Friction, gentle, & frequently repeated, either with the dry hand or with Stimulants. The Mercurial Ointment has been much used for this purpose, above or below the Tumor is Inefficacious. Vapour of hot vinegar has diminished them, directed to the part by means of a Funnel: Caustic Salamoniac; The Soap Liniment; Electricity; Frequent Shocks of Electricity has been found serviceable in diminishing Schirrhi. Topical bleeding is

also very useful, by Cupping & Leeches - Exercise is very useful especially on Horseback; Certain Tonic Medicines particularly Bark, this is only useful in the Recent State; if used in Chronic Cases, rather tends to increase it.

Whenever a Scirrhous Tumor resists this treatment, Extirpation should be resorted to; & the sooner it is extracted the better, as they always tend to Cancer, particularly if seated in the Breast or Axilla; they never should be neglected longer than 5 or 6 months: If this be neglected, it degenerates into

<u>Cancer</u>. This terrible disease proceeds from what ever Causes produce Scirrhi in the Glands, & appear not only in these, but occasionally in every part of the Body. Women are more subject to it than Men. They have two organs more which are subject to this disease than Men; <u>Breasts</u> & <u>Uterus</u>. Cancer occurs at all periods of Life, Most frequently in women, & about the time of the Cessation of the Menses It occurs from this Cause most frequently in the Uterus and Breasts. From an improper treatment of them it occurs; from Stopage of Bleeding piles; Sometimes from repelled Eruptions, from Angry passions, but most commonly, as I at first observed, from Scirrhi

It makes its appearance from a Tittillation and

Burning painful sensation in the part, attended with a redness, & Purple blushing colour in the part affected.

Cancer occurs in all parts of the Body, but most commonly in the Glandular parts: The Uterus, Vagina - Stomach, Bowels & bladder are sometimes affected with it; but most commonly it occurs in external parts of the body, the Breast & Armpits, Neck &c. Very frequently on the face, especially the under lip. Tumors upon the face are very apt to degenerate into Cancers, from exposure to the air & a variety of irritations from Hairs &c. but more especially from washing the face; near the Eye they frequently arise from this Cause. When they occur in any of the Internal parts, I believe them totally incurable. Cancer generally occurs in persons about 45, or hard on it, seldom earlier, mostly not till 50. Mr Hill attended 63 patients in this disease, 15 of these were ~~two~~ between 70 & 80, 18 between 50 & 60, 17 between 50 & 40. and 13 only below 40. This may probably be owing to the acrimony of the humours of old People; their tears from this circumstance Erode their Cheeks: Their bones are very difficult to heal; Perspiration acrid: And Haller says the a young man may be distinguished from an old one by the ~~factor of~~ acrid factor of the perspiration of the latter at the distance

of 10 years. Cancers are most common in Cold Climates: They are almost unknown in South Carolina.

They are either Local or General, when they affect the whole System, they are said to be Scrophulous.

The Remedies for the Sores are Caustics or Arsenic applied to them; & a common Plaster spread over it. The General Remedies are to be accommodated to the State of the System; low Diet should be prescribed & milk should form a part of it. I have heard of Cancer being Cured by Diet of this Kind, Milk & Vegetables if an inflammatory diathesis prevails. 2d Narcotics are to be used, as Belladonna, Night Shade & Hemlock. I have never heard of their performing a cure in confirmed Case of Cancer. 3d Certain Ionics, as Bark, Steel, Mercury, also Arsenic in Infinitesimals. A new Remedy has been proposed by Dr Pearson, Bloodletting just before Schirrhus Ulcerates, he says bleeding prevents a Cancer. There are here very probably some Indications of morbid action in the Pulse: I have felt it in one Case remarkably slow, & B. I. in this Case did much good. Whenever there are Indications of Inflamatory Diathesis, this Remedy should be used. Ptyalisation: Dr Morris of Chester County Cured several Cases by this Remedy, it should be therefore always tried. The Sores should

be treated with Caustic, Vegetable & Mineral: Among the former are, the Green Indian Turnip, Poke Root dried, or Poke Berry Juice, Extract of Sumack & some others. They all act in the same way, & I prefer the Mineral Caustics; Arsenic, Corrosive Sublimate & Lunar Caustic. We should never, however, encourage our Patients to expect a Cure from these remedies, but Excision should always be employed when the above fail. The power of Nature & Curative Virtues of Time should never be relied on. These Sores have commonly been considered "Noli me Tangere". They should be called "Excide me".

Another Disease Connected with the Lymphatics, tho' it affects the Bones, is the

Rickets. For an History & Definition of this Disease, I refer to Dr Cullen.

The first account on Record of this disease, is given by Dr Glisson: it first made its appearance in England in 1620 during the Reign of Charles 2d. The Children of that place were much affected by it, especially those of the Nobility. From this disease their Legs were distorted, hence the Origin of the fashion of wearing Boots.

Dr Sydenham says it always made its appearance at those Seasons when Intermittings fevers were Common

But writers take notice of its occurring after the most acute diseases, especially the Small Pox, Measels & also after some Chronic ones. It is, then like Scrophula = a Misplaced fever in the Bones. This disease was much more Common a year ago, than it now is; & so are Malignant fevers in Europe: they depend on the same Causes. A Softness of the Bones is said to be owing to a deficiency of Earthy matter in them, and is to be derived from 3 Causes.

Dr Sydenham supposed it very properly a Misplaced fever.

There is one Remedy for it I believe never has been tried, & that is Bloodletting; it should be used whenever the Pulse indicates it in the Commencement of the disease: in its forming State it would no doubt prevent it. The Remedies generally used in its formed State are, Tonics, Pure air and Wholesome Aliment. These are of great Consequence: Also Cold Bath & Exercise, and Vegetable & Astringent Tonics. In Scotland Exercise has often Cured: But they Cure it there by Fish Oil; how this acts is difficult to say, it may probably be by . . . . . .

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Lecture

Lecture 72d

We proceed next to the diseases of the Skin. Those which are produced by fever as Small Pox & Measles &c. We have already considered: (The Exanthemata of Dr Cullen.) But we are to speak of diseases that affect the Skin primarily: these proceed from 4 Causes; 1st A Morbid State of the Cutaneous Vessels. 2d Suppressed Secretions of the Cutaneous Glands (Sebaceous.) 3d Vitiated fluids as in Scurvy. & Lastly from the action of heat, producing a Morbid State of the Bulbs of the Hair.

These Cutaneous Eruptions are known by many different Names: Or Herpes, the Whole Skin of the Body. When it appears only on the head from the 4th Cause, it is Called Tenia Capitis. Tetter is a Spot of this diseased Skin appearing in almost any part of the Body.

The Remedies for Eruptions are, External & Internal. The Latter are to be accommodated to the State of the System: If much Inflamation be present, & the Pulse full & tense, V. S. and Low Diet, with occasional Purging

should be Recommended. When on the Contrary there is ~~great~~ Weak action of the part, & the Pulse shews marks of a Debilitated habit, Tonics must be used, Bark, Wine Opium a Generous Diet &c. An account of External Remedies for these Eruptions Will be nothing more than Empyricism. I shall mention however some of the most common Remedies for their Cure; and we shall be able to explain the fact that, the same Remedies often do harm & frequently Cure, when we advert to the different States of the System in which they may have been used. Lead Water is a very frequent Remedy; it does good by dispersing Inflamatory Stating: Salt & Water is a common Remedy: this sometimes Cures it by the same means. Tar ointment, composed of equal parts of tar & hogs lard, has cured them, especially Cases of Tinia Capitis, but above all the Argentum Citrinum, this is the most useful application I am acquainted with, preferable to any form of Mercury. — The Red Precipitate has Cured it, & the White precipitate. Lastly, a method of treating them has been recommended by . . . . . is to bath the part first with a weak solution of Corrosive Sublimate, so as to excite a little Inflamation & Pain, & then rub the part with a little Calomel or Sulpher, or with an Ointment Compound of

Sulpher, Hogs Lard & Nitric Acid. ℞. Nitric Acid ℥j Sulpher ℥ij. hogs Lard ℥j. to make it into an Ointment. Another ointment which has been used with great advantage in the Dispensary. ℞. Vitriolic Acid ℥j hogs lard ℥j mixed together & applied to the Skin. If all these fail, recourse must be had to some Escharotics to destroy the old Skin entirely. I know of none that answers better than Arsenic. It has been erroneously supposed that no cure of Lenia Capitis could be performed till the hair is plucked out by the roots; this is not a fact: the cutting it close, & Shaving, answers perfectly: the Unguent. Citrin. may then be applied. Cleanliness is of great consequence in these Complaints: If these fail Blisters & Issues must be had recourse to; it is better to have an Small Sore at our Command, than to have a number — which are not at command. I have known an Eruption cured in a Child by a blister, & return after the Blister healed, this gave me the hint, & I have followed the practice with advantage. They sometimes disappear after having appeared appearing for a long time; here Nature is said to Cure them. It is time that Cures them, & the Revolution which the the System undergoes: These changes have been supposed to be Septennial; I dont know that they are, but they certainly do take place. Changes of Air has

Cured them by inducing perhaps some Change analogous to these.

Ring Worm. Are sometimes a very troublesome complaint. It is an Animal possessed of Locomotive power. The Remedies are many which have cured it. You may hear from any old woman that Ink cures them. Gun powder & water Cures them: Nitric and Sulphuric Acid has the same effect. Aqua Fortis I have frequently Cured them with.

The Itch is the offspring of filth as much as the Plague or Jail Fever; hence it is mostly accompanied with Poverty, & Seldom occurs in Genteel Life. For the Eruption Mercurial Ointment, or Sulphuric Ointment are commonly used & Seldom fail Curing it: I have Known it Cured also by dry Sulphur rubbed on the Skin; by wearing a Shirt boiled in water containing Sulphur, this Shirt worn 3 nights has cured it.

There is a Disease of which we read in the books but which now never occurs, called

Morbus Pediculosus. (Lousy disease) This was formerly a most troublesome & Loathsome disease; in short it was one of the Plagues of Egypt. It is said to that it has occurred in more modern times, & that Pym, the Celebrated Patriot died with it. this is mentioned by

Hume, & is probably a Political Calumny. It has been Cured by . . . . infused in Rum & applied to the parts affected, which are all that are covered with hair but especially the head.

There are in some cases Congenial Marks. on the face, Neck, & other parts of the body, said to proceed from a Longing or fright of the Mother during pregnancy.— In some cases said to resemble Claret, in some a Mouse,— Not &c. Dr Wm. Hunter used to mention in his Lectures a fact that Completely overthrows the Opinion of them being derived from the Causes mentioned. It was communicated to him by Dr McCauley who attended the Lying in Hospital, of 3,000 Women whom he delivered. He asked them all if they had had any Longings during Pregnancy, yes, for what? Cheese, the Child was found marked perhaps marked with Claret; another longed for something, & the Child had no mark. In the 3,000 Cases there was not a single Incidence between the Mothers Longing & the Mark; & if there had been, it would not be more surprising than the Coincidence of dreams sometimes are. They are for the most part Incurable.

The Diseases Peculiar to Women.

In our account of diseases we have spoken of them as affecting both Sexes promiscuously. But women

are liable to some diseases exclusively, from a more delicate texture of Body, & Parturition & Menstruation. We have treated already of Amenorrhagia . . . . . under the head of Uterine hemorrhages.

Leucorrhoea or Whites.

This is a disease to which women alone are liable. It consists in a discharge of Mucus alone from the Vagina. It is for the most part Topical, & occurs chiefly in young women; But it does sometimes become a general disease in old debilitated habits. It is generally attended with pain in the Back & Barrenness (commonly) In some Cases there is an affection of the Liver, hence the Liver is said to be affected in Whites; but this is in Consequence of increased Circulation; in all cases the Liver appears to be the Viscus which suffers first. It occurs as a Symptom of Gout & of Lues, then said to be venereal.

Remedies for it are the Injection recommended for Gleets, this I have prescribed with the happiest effect in several Cases: But the disease is frequently attended with morbid action (fibrile) of the whole System, — here Tonics are necessary, Bark, Steel, &c. but if V. S. must be resorted to & depletion, tho' tis seldom necessary. Mercury is to be used if Lues be present, also Balsams, —

Balsam Capaiba. Diseases occasioning from Cessation of the Menses, as Cholic, Vertigo, Dropsy, White & above all Debility & Cancer of the Breasts. These are to be prevented at the time they usually come by occasional bleeding, 2, 3, or 4 months, also Exercise & moderate Diet. Plethora is to be guarded against.

The next disease to which women are subject is,

Breeding Sickness.

The final cause of this I believe I mentioned to be from Wm. Hunter to be, to prevent too great appetite & consequent Plethora, which would predispose to abortion. It generally begins 4, 6, or 8 months after conception; tho, there are some women who keep the whole period of Pregnancy free from any sickness. It is here to be Resembled by giving Ipecacuanha, which produces Nausea & prevents appetite. I have known it resembled by Opium, also by chewing Ginger Bread, Biscuit &c. Also ginger, sucking a Lime &c. or anything to prevent an empty stomach. — Lying in bed should also be enjoined; gentle Exercise should be used in a Carriage, Walking &c. Another complaint which frequently occurs in women during pregnancy is Tooth Ache. Women have generally an Idea that it is improper to extract teeth at this time, this is false; it is as necessary as at any other time; if, however, this be

be not consented to, Blistering behind the Ear & Laudanum. It may be much mitigated by a gentle Purge. Magnesia or Lenitive Electuary are generally used for the purpose of keeping the Bowels open. Calomel should not be used ~~Specifically~~ habitually, as it acts Specifically on the Rectum & Anus; it may however be occasionally taken with advantage. Dyspepsy is a frequent Symptom, pressure on the Neck of the Bladder: Purging is here proper & generally gives relief. A Catarrh sometimes occurs, a constant Cough from ~~Irritation~~ pressure & irritation on the Diaphragm. V. S. & open bowels are the Remedies; & they should not be neglected for they lead the foundation for Pulmonary Consumption. (Cough has)

In some cases there is a Constant & Involuntary discharge of Urine; this is a most unpleasant Symptom; it has in some Instances been alleviated by bleeding. Swelled Legs are sometimes a Symptom of pregnancy; this occurs in one or both, & arises from pressure on the Veins of the Lower Extremities (by the Uterus) Gentle Purges have alleviated; if it fails, bandaging & a recumbent posture are to be enjoined.

In some cases there is a pressure on the Head & Numbness of the Limbs. Purges & V. S. Cure it.

CRAMPS often occurs sometimes & is very distressing.

It sometimes affects the Muscles of the Limbs & sometimes the Abdomen. This is to be relieved by the remedies formerly mentioned for this disease, B. S. Cerefolium &c.

Dyspepsia. This only occurs in the last Months of Pregnancy, after Bleeding sickness in some Cases. — Cured by bandages applied in such a manner about the abdomen, as to prevent the Uterus pressing on the Stomach which is the Cause of it. There is moreover a Monthly discharge from the ~~Abdomen~~ Vagina during Pregnancy. Jaundice is sometimes one of the first Symptoms of Pregnancy; to be Cured by remedies to be mentioned. I mentioned formerly that some Women had the Menorrhagia during the whole period of their pregnancy, but it is only from the Vagina. If the Hemorrhage be profuse, Bevan's Tea to be used.

Convulsions, have been supposed a fatal Symptom where they occur immediately before Parturition; but they are prevented from being so by Copious bleeding: this is as Certain here as it is in Pleurisy, but it must be Copious to be effectual.

A Question has been much agitated by Medical Men; Whether it be proper to bleed before Parturition if there be no Complaints. Dr Wright says it is a necessary Evil, but it may be prevented by Exercise

Exercise powerfully. But in women who are in easy circumstances & will not Exercise, bleeding must be had recourse to: it makes Labour very easy; it has been said to predispose to Abortion, but it is not the case: I have known many Instances to the Contrary. The Turks render Labour easy by the use of Sweet oil: this has been supposed to act by relaxing the parts; I think this is not the Case, & that it produces its effects by purging the bowels & not by lubricating as has been supposed. In Sicily Mr Bridone tells us, the women have very easy Labours, little or no pain: this must proceed from their relaxed habits: & it appears that Labours are easy in proportion to the degree of relaxation.

For further particulars on this subject I refer to Dr Denman's Lectures, & shall only make one remark Dr Wm Hunter used to say in his Anatomical Lectures, that those women had always the speediest Recoveries who had the severest Labours, & vice versa. This must arise from the effects of a severe Labour preventing the Patient from using Exercise too soon. &c

Lecture.

Lecture 73d

After Delivery Women are subject to a fever called Puerperal Fever. On which I shall proceed to make a few observations. Many books have been written on the Subject, & many opinions held: I hope I shall be able to make it appear to you a very simple disease. It comes on at different periods after Delivery, from 24 hours to 2 or 3 days or weeks, in some Cases even 6 weeks after delivery. — It commonly comes on with a chilly fit; this, however, is not uniform; & it frequently attacks without this premonition.

Its Symptoms when formed are, An increase of heat, Vomiting, Nausea, & restlessness; A sweat partial or last universal, or a total dryness of the skin: The tongue is moist or dry; white sometimes & furred, or moist; sometimes has a brown Crust ~~upon~~ on it; A sense of Coldness on the back, & torpor of the lower Limbs. It has several febrile Symptoms, & none of them are Specific; they appear in many other diseases. The Pulse also, is as in other diseases, full

full & Tense, or quick & frequent. But there are some Symptoms, peculiar in some measure, to this disease, as a pain & uneasiness in the side similar to what occurs in Pleurisy; this extends frequently to the Scapula, to the region of the Short Ribs, to the Stomach, Intestines, Spleen, Liver, Bladder, Rectum: These may be considered as specific symptoms; every part of the Belly appears affected: The pain is . . . & sorrowful, accompanied with a subsultus Tendinum as in Malignant fevers: A pain frequently occurs in the Back & Buttocks extending to the thighs; Legs swelled; Breathing is quick & accompanied with but little motion of the Thorax. — Cough & Diarrhoea, attended with Nausea & vomiting: Tongue is yellow, black, dry or moist, & sometimes Green. The Lochia are sometimes regular, but offensive. Milk in Excess or in too small quantity, tho' in some cases it is natural: Urine sometimes red with a Sediment. Petechia & Miliary Eruptions sometimes occur; hence Denman & Hunter have called it an Erysipelatous fever. —

It Terminates in some Cases in 24 hours, or 3 or 4 days; tho' in this Country it generally continues for 10, 15, or 20 days, putting on a Chronic form. Pain Ceases before Death, & hopes of a recovery are entertained. The Pulse in these Cases is low, & quick

Abscesses are frequent; & great difficulty of breathing attends: Swelled Legs are common; & in many Cases involuntary Stools. Upon Dissections marks of inflamation are found in the Womb, Ovaria, Omentum, Mesentery, Spleen, Liver, & Intestines.

The Remote Causes of Puerperal Fever have been supposed to be, 1st. A Suppression of the Lochia; But it often occurs where there is no such Suppression. 2d. it has been ascribed to an Inflamation of the Uterus. But this cannot be the Cause, for we sometimes meet with Cases where this Viscus shews no marks of Inflamation. It has 3d. Been attributed to a Translation of Milk; but in some cases the milk flows as much as in health. Also 4th. to an Inflamation of the Omentum & Intestines; but there occurs too great a variety in the appearances of these, to allow us to suppose it owing to that Cause; they are the Consequences, not the Causes of the disease. Lake & Hulme held the last opinion, but I think it erroneous. Lake further attributes it to the Suppuration of the Omentum; but this has never been discovered by dissection. I am disposed to attribute it to the Stimulus of Acrid matter, from without or within acting on the body, previously debilitated by previous Anxiety & Pain; and

and perhaps, in many cases by improper Treatment and impure Air; the difficulty of Breathing, may also predispose to it, as want of pure Air is debilitating: So that its causes may be the same precisely as those which induce Ship & Gaol Fever. Pressure on the Arteries from Faces in the Rectum & Costiveness may assist in producing it; hence the reason why it occurs so frequently in humble Life: Instances of it in genteel life are rare: it may arise from want of Cleanliness &c. but in Hospitals & among the poor it is much more common & for the more frequent occurrence of the above Causes.

Richter Calls it an Inflamatory, & other writers a Putrid disease: Both of them are right & both wrong. In some cases it is so highly Inflamatory as to bear Copious bleeding, & in many it appears with so much malignity as to destroy Life in a few days. In some it is attended with a Lypthocia & even Lypthous action, bad often will not allow of bleeding at all. It sometimes terminates in 4 or 5 days, but most commonly in this Country, runs on to the 18th 15th or 20th It is attended with great debility, & appears to partake much of the Nature of Scarlatina. There is great disposition to Terminate in Anasarcous Swellings, especially where it appears in form of Typhoid Fever.

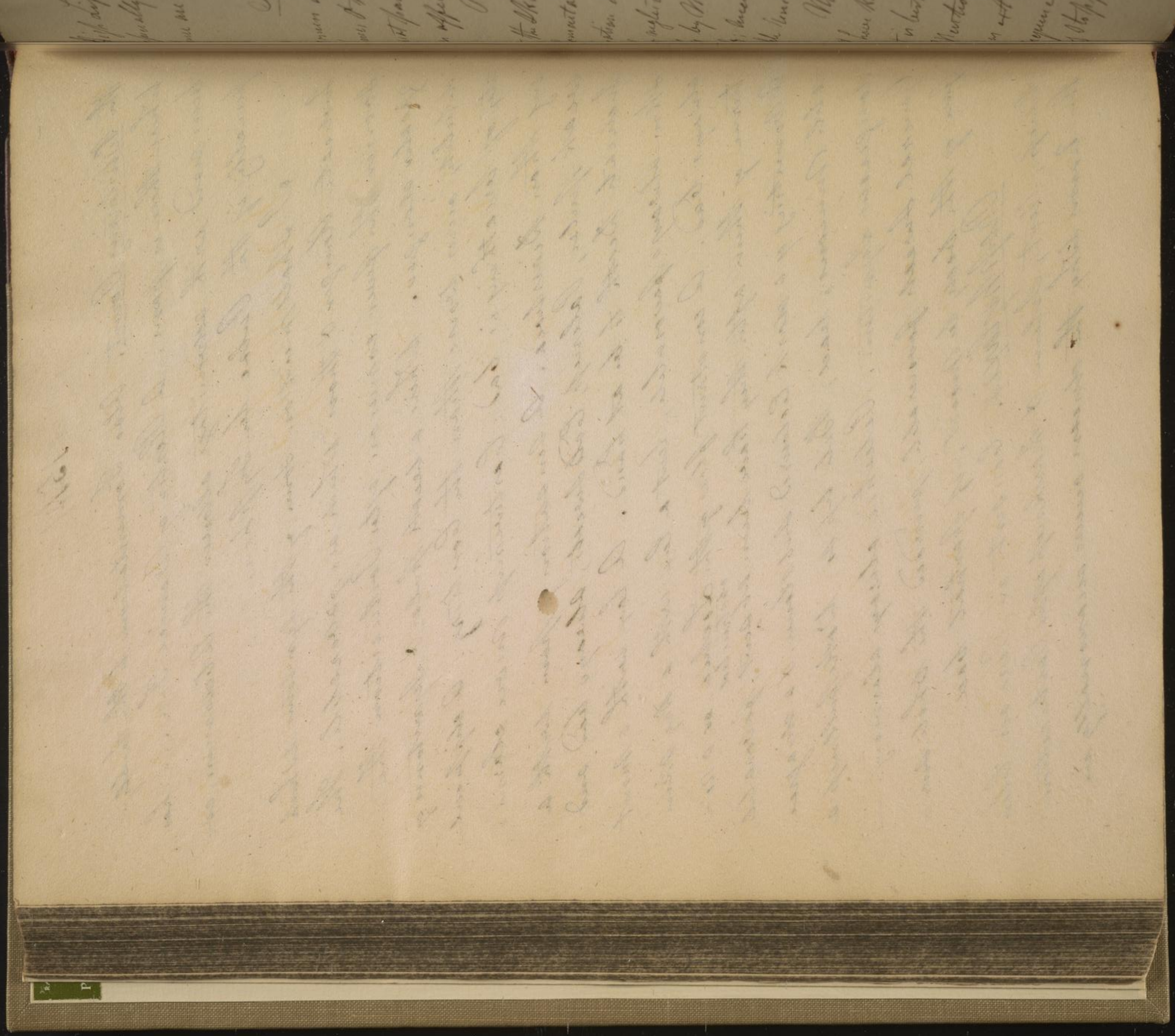
The Remedies for this disease are different. If the Pulse be full & tense Bleeding must be used. I have seen very few Cases since the year 1793, which were not accompanied with so much Inflammation as to require blood letting. Dr Dulcet of Paris recommends Vomits; these are proper where Nausea occurs, & bile in the Stomach; they should likewise be used where we cannot bleed, but they must not be exclusively relied on. If a Diarrhoea occurs, Demulcents are proper (in the low State where there is debility) but if the Patient be not too weak but able to bear it, we should not check it; if the Pulse be Typhoid we may safely let it alone. In this all writers agree.

There have been many disputes about the propriety of exhibiting Opium, we must be governed in the use of it by the State of the pulse, or in all other fevers. If much action be present, it will be injurious; but in Cases of Febrile morbid action it is highly proper. After reducing great Morbid ~~Excitement~~ action, & in Cases where there is not much action, great advantage may be derived from Blisters. Great disputes have arisen also about the Propriety of this, and all because they have or have not been used in that State of the System which I have denominated the

the Blistering Point. Also Fomentations to the belly — where there is pain. A Plaster of Venice I..... has been used with advantage allover the Abdomen, especially if the Pulse be Typhus.

I shall mention some of the Symptoms which Indicate Danger & those which are favorable. The sooner the fever comes on after Parturition the greater danger. When a weak pulse & Symptoms of debility occur worse than the Contrary: A difficulty of breathing is bad: Costiveness more alarming than Diarrhoea. A Sensation of pain with a weak pulse, Paleness, Cold Sweats, always bad and Indicate Death to be at hand. A Lax with a moist Skin always favorable, but a Lax with a Dry Skin always bad. A constant flow of the Lochia, or a return of them after they have been obstructed or absent, favorable. A Vomiting of a dark Coloured Substance, & a disagreeable Mucous, bad; Bile lips &c: Wakefullness a dangerous Symptom. Petechie always alarming. — General Sweats favourable, provided the whole surface of the body be moist; if partial bad.

Prophylaxis. Consists in, Pure air, Cleanliness, Rest, Silence & Darkness after Parturition the Reason why the disease occurs occasionally in —



High Life, is, from a want of the latter Caution; — especially if Patients have an easy Labour; Rest & sleep are disturbed &c. Pure air of great consequence &c. &c.

Swelled Legs, are another disease to which women are subject after Delivery; extending to the knees & thighs; sometimes are accompanied with great pain; sometimes one only, sometimes both are affected.

Remedies bleeding, also translate the disease to the Skin by Vol. Liniment.; Gentle purgation, fomentation: These are not to be eased till inflammation is subdued by Venæ Section; It must not be neglected: I have known one case terminate fatally by Mortification. They sometimes end in Dropsy; once I have known this Cured by a very simple Remedy, Parsley Tea; it deserves to be tried. —

Now & then the Placenta remains after Birth I have known 3 Cases of this & all terminated in Death; it is best to extract it at all events. Riverius Mentions a fact respecting a Lady in whom it was extracted after the birth of the Child in consequence of Flooding which succeeded; the flooding stopped & the Lady recovered: This should —

therefore be done

Swelled Breasts, are a very common occurrence after Child bearing, & is very distressing: It may be prevented by pulling out the Breasts & Nipples every day for 6 weeks before Delivery. I have known it thus prevented frequently: Sore Nipples may be prevented in the same way, & are very apt to occur if this precaution be not observed. If these are attended with much pain & Inflammation, Blood-letting should be used, & certain Medicines called repellants, as Sal Ammoniac, Vol. Liniment Laudanum with Camphor &c. If we are unable by these means to check it there, we must allow Suppuration to take place; and the Ley Poultice may be used with advantage to assist this process. Rx. A gill of Ley, a half a pint of Porter or Beer, Bread q. s. and after it is made into a Poultice, spread with hogs lard or sweet oil. If the Nipple alone be sore, Sach. Sat. is of use to abate the Pain, and Cold water: if an abscess be troublesome, Salt & water is useful in abating it. An unpleasant flabbiness of the belly after parturition, may be prevented by Bandages kept on for 6 weeks after delivery; it is very common in Women who have been many Children, but may be prevented in this way.

We come next to the diseases peculiar to Children after Birth. The 1st of them is called the Red Gum. An Eruption on the face of Children & different parts of the body; seldom attended with any danger, & generally goes off of itself. Another disease which now & then occurs, but not frequently is Spina Bifida this belongs to Surgeons.

Trismus Nascentium, I formerly limited at first treating of Tetanus) arises from the retention of the Meconium; and from injuries of the Umbilical Chord in Cutting it. I know no cure for it but may be prevented by a gentle purge after birth; and if the navel String has been much injured, a poultice or cold water should be applied. Stimulating is improper; Care should also be taken not to expose them to exciting causes, as heat & Cold.

Aphtha is very common about a Month after Birth: it is seldom fatal here, but in N. York it frequently is: They call it Sprue; it may proceed from the vicinity of that City to the Ocean: it has been attributed to the ~~xxxxxxxxx~~ retention of the Meconium; Moderate Purging should be used: It may be mitigated

if painful, by means of Borax, Molasses & water &c. This disease is very distressing when formed, but a gentle Purge prevents it effectually. Children are sometimes affected with Milk in their Breasts: it is customary here for Nurses to squeeze them; but this is improper gives them great pain. The best applications are Repellants, before mentioned.

The Bellyache is a most distressing complaint to Children. It arises from too affluent vegetable diet of the Nurse, or from the Child eating solid food too soon or too much. Remedies are, to avoid all the Exciting Causes: Laudanum, Peppermint water and magnesia, is a very excellent remedy for it. This is the Composition of "Dalby's Carminative" a Celebrated Quack medicine for the Cure of this complaint which is used with great success: a little tasted Rhenbarb should now & then be given to carry off the effects of the Laudanum. An experienced Nurse in this City, informed me that She observed the complaint in Stormy weather to be increased, & that Male children were more subject to it than Females; how this is, I cannot say. Brandy which is used by some Nurses, & whisky is an improper Remedy, & should not be used. The application of a warm hand to the belly, & gentle

friction often cures it; & if this does not succeed, a little Stimuli, as Laudanum may be put on the hand.

Teething occurs between the 3d & 18th Months and subjects Children to many unpleasant Symptoms: as Vomiting or Lax, frequently occur, Convulsions, fever, frequent Startings; Swelled sore Nose & Ears, Swelling in the Groins, & lastly Gonorrhoea; of the last I have not seen any Cases, but Underwood (Gunn aide) relates Cases of it. Remedies are, gentle Laxatives, low diet, or if a Laxative and Laudanum, which eases pain; Cool Air & lastly cutting the gums: this operation is very easy & very useful, the Mouth should be kept clean. Children are very often affected with Cutaneous Eruptions behind the Ears, face &c. And on the Privates from the Irritation of the urine. - if very troublesome Mercurial applications should be used, Cleanliness & perspiration restored. Unguent Citrinum the Dermer resort.

Paraphymosis, sometimes occurs from dirt, accident &c. Cold water & the Lapis are commonly sufficient for its cure. In some Cases an operation must be performed.

Warts on the Tongues of Children sometimes

ovaries, they are to be cured by Excision. I have seen them often in adults, & in old Women of 60.

Where Speech is impeded by their being Longue-tied, this must be obviated by an operation. ~~Suck~~ Sucking is often made difficult by it in young Children.

Lecture 74.

I might have mentioned at our last Lecture, that from an Inability of the Mother, & some disorganization of the Children, they frequently cannot Suck; in these cases they are fed upon Liquids. Sugar should enter largely into all their food; the Corn Gruel is a very excellent diet for them, made of Indian meal, Sugar & Milk. I will here mention a fact which will be of some importance to you, of an old Black woman of 60 who had never borne a Child, who in consequence of giving her Nipple to an Infant for a few days was surprised to find an accumulation of Milk in her Breasts which continued & she was enabled to suckle the

Infant. So proceed with diseases of Children: they sometimes run pins or needles into their flesh, & perhaps swallow them; they are found often under the Skin, give a great deal of pain, & must be Extracted by an Incision. In some instances these instruments have occasioned obstinate old sores. Dr Rush mentions a Case of Mr Monro's Son, in whose an Ulcer in the groin which was very obstinate, & baffled the Skill of 2 or 3 Physicians, was Cured by extracting a pin from it by a Member of Congress. Mr Boyle in his works relates similar Case, & probably this Gentleman had read his Book. In some cases Children have obstruction of the Urethra in consequence of Imperforated Prepuce; here Ulcers are sometimes formed, & in one case I was obliged to perform Circumcision to effect a Cure.

<u>Costiveness</u>. Children are subject to this, it is of consequence to obviate it, as it lays the foundation for diseases; a Laxative diet should here be used especially Corn Starch. the Nurse should also use a Laxative diet; and if these prove ineffectual gentle laxative Medicines should be given, as Rhubarb, Castor oil &c. Parents are sometimes apprehensive that Children are lame from twists of the Arms &c. from

unceasing treatment of by Nurses. Accidents especially of the hip Joint; if Inflammation, a Low diet should succeed a Disease of the Hip joint very often occurs in consequence of Sprains, which will terminate in Suppuration Paralysis &c. if not Cured. A Case of Inflammation from a Sprain occurred to me lately, in a Girl about 8 years old. I bled, Purged, & ordered a low diet & rest on a Sofa: She speedily recovered and is now quite well.

Cholera Infantum is the Cholera Infantum of Cullen, of which I have already spoken: That it is a Bilious Remitting fever turned in upon the Bowels, appears from the discharge of Bile up & down; from its remissions; from its occurring at the season of the year when these diseases are most common, & from its having many symptoms in common with them. In some cases I have heard of the Black Vomit occurring in this disease. See Med. Eng. & Obs. for its causes and cure. I have only to add to its Cure Bloodletting; Since the Inflamatory Constitution of the air which has prevailed since the year 1793, I have found this very necessary.

Children frequently thrust Beans & Peas, Beads &c. up into their Noses, which give much distress & uneasiness these should be extracted by Forceps, or a crooked Probe.

They often swallow money, hard substances as stones of fruits, Pins, fish bones, Coin & even Nails; these generally give no uneasiness but pass off by the bowels Stool. Gentle Laxatives will promote this. When Copper Coin is swallowed, it is customary to swallow Acids to corrode the metal; but this is improper as the acid will corrode the Copper & form a Salt which produces Nausea, vomiting, Pain & much distress. If the substance lodge in the throat, the Probang becomes often necessary to push it ~~back~~ into the Stomach.

Sometimes Children or even adults get substances into their Ears, as Peas, Beans &c. or live Insects as Spiders, flies, especially the latter, which create much uneasiness; the former may generally be extracted by the forceps or the Probe: the latter should first be killed, with Spirits or oil dropt into the Ear.

Children are frequently troubled with WORMS. They are of 3 kinds, the Round worm, Tenia or Tape worm, and Ascarides. They are kindly sent to consume the superfluous Aliment of Children. Children always eat more than is necessary. Rousseau says "When I was a boy, I was like all other boys, a Liar & a glutton." It is to obviate the inconveniences of Gluttony to which Children are exposed, that worms are in their bowels.

They produce Diseases only when in too great abundance, or in a wrong place, in the Stomach. For an account of these diseases I refer to my II. Vol. And only add a few Symptoms which occasionally occur: Headache, Apoplexy, Lethargy, Convulsions, Grinding of the Teeth, Starting especially in sleep; Constant efforts to swallow even when asleep; Cough, obtuse pain in the belly & side; Frothy expectoration; Slow unequal Pulse; Cholic; Slimy Stools; Nausea, vomiting; Cardalgia, Diarrhoea; Sudden urging to go to Stool in the Night; Applying the hand to the belly even in Sleep, or lying on the belly; Picking the Nose; Sour Breath; a Slow, intermitting or absent Pulse; Great increase or want of Appetite; Fever ishness, flushing of the face & cheek; & lastly Atrophy, or Wasting of the Body. These Symptoms are all derived from the observations of Authors; I have seen many of them confirmed. Some mention another Symptom, a Swelling of the Alae Nasi & Upper Lip: But all these Symptoms are Equivocal, none of them indicate certainly the presence of the disease: The only unequivocal one is, the discharge of one or more worms. We should suspect the presence of Worms, in every disease to aggravate the Symptoms. Since the true Causes of Cholera, Hydrocephalus &c. have been understood, Worms have not

been so much suspected as the Cause of different Infantile diseases. They were formerly supposed the Causes of diseases when they really were not: They come indifferently in every disease; as frequently in Hydrocephalus & Small Pox as any other; and yet one will hardly suppose them the Cause of either of these diseases. Their Evacuation is the effect of disease in the System. The Indians properly say "The Fever brings the Worms, & not the Worms the Fever." They are expelled by disease just as Rats & Mice are from a house by the noise of repairing or pulling it down.

The Remedies for Worms are mechanical & Chemical. Those which act Mechanically on them are Purges, especially Jalap & Calomel; Emetics:- The Chemical are, such as poison Worms, or exert an action on them; & not like the others which excite an action in the Alimentary Canal which Expells them: These are, 1st Pink Root; this is an effectual Poison for Worms; an infusion of the Powder may be used, dose from 2 to 10 grains, it forms the basis of Wills celebrated Worm powder: he disguised it with Ethiops Mineral. 2d Certain Saline Substances, as Acids especially the Vitriolic; this acid diluted so as to be drank, is a pleasant & very active remedy for Worms. Neutral Salts answer very well; Gum powder is much used; also common

common Salt, which answers better than any, & is more agreeable. Sugar & Molasses ~~xxxxxxxxxx~~ may also be used with advantage. Corrosive Sublimate, but this is dangerous & often vomits & purges, does 1/10 or 1/12 of a grain. 4th Certain Tonics appear to produce the same effects, & also act as Tonics to the Alimentary Canal, as Chalybeates ppte from ℈j to ℥ß per diem.

Another disease taken notice of by Underwood, to which Children are liable is, Erysipelas Infantilis, an eruption appearing within about a week after Birth, all over the Body: I believe it is Incurable.

The last disease I shall take notice of peculiar to Children is, Tabes Infantiles. I cannot give a better account of this disease than by reading a Manuscript of the late Dr Smith of N. York; put into my hands by his Son. (Dr Rush read the account. Children are seized with it early in Infancy

want of appetite or very voracious appetite; belching up of food, & sometimes it is attended with Shiny Depositions. Diarrhoea often occurs with these Shiny Stools, after great loosenessp; this is generally succeeded by Dysentery, & discharge of hard Fæces, & indigested, with a strongly

marked Hypocratic face; is often accompanied with worms.

Cure consists in Bark Wine & vegetable Diet, — Pure Air; but above all time must not be neglected. I have Cured it several times by making young & old children drink from a glass to a half a pint of Wine a day.

Besides all these, Children are subject to all the diseases of Adults, which are more clearly marked in them, because they are less varied & influenced by the operations of the Mind. The Remedies are the same as for Adults, & Bloodletting is equally safe and efficacious as in Adults.

Lecture 75th

Negroes, from their Situation & Modes of life, are subject to some diseases peculiar to themselves. The Yaws. You will find this disease correctly described in the 6th Vol. of Edinburgh Medical Essays.

The Cure, which consists in the first place, of Mercury, cannot be applied till the disease becomes active; In this respect it is on a footing with Leprosy

& Lues venerea: The former, we are told among the Negroes, could never be cured till the whole body was covered with Scales. 2d. There is always a "Master Yaws," as it is called; one Carunckle larger than the rest, & in the treatment of the disease this must be destroyed by Caustic; after this it yields to Mercury.

Another disease to which they are liable in the W. Indies is called Coacoubay, a gradually falling off of the Trunk of the body. This is to be cured by Pure air & generous Diet.

Another disease called "Mal d'Estomac", is dispepsia a Symptom of Hypochondriasis which occurs in the Slaves of the West Indies; it is Inordinate appetite for Dirt, hence called Dirteaters; it is always the effect of Slavery. The same remedies which cure Hypochondriasis are proper here. Dr Hunter says it is generally fatal; Sometimes an appetite occurs for Putrid food; this is taken notice of by a Society of Philadelphians at the Cape. They dig up in some Cases the bodies of Bad horses & Cattle, not waiting till their own meat becomes putrid.

Dissection shews the Stomach to be inflamed in this disease. There is in this disease, a want of such excitability in the Stomach, as to require the Stimulus

of Putrid Meat to produce Digestion.

Jigger, is another disease of the Negroes; a kind of Worm in the foot proceeding from the Eggs of an Insect deposited there, from water commonly in which they Bathe. It may be Cured by Mercurial Ointment, or more effectually by bending the head of the worm round a Stick, & drawing out a small portion of it daily; it will often break if this be not done Constantly. Bruce tells us that this disease prevails at Massowa, where it is called Furanti, a corruption of an Arabic word signifying the the juice of the dates or Palm or Water, since they acquire the disease by drinking as well as by Bathing. He describes the worm with a small black head, hooked nose; its back of a glistening silken Colour, somewhat resembling a piece of . . . . or birds feather: One was extracted in the course of 2 weeks, 5 feet in length; and he says no Inflamation or Irritation supervened. The Negro Women are subject to difficult Labours; this I have been told is owing to injuries of the Pelvis, done by kicks & ill treatment to Negroe Girls when young.

Eximus Nascentium. (Jaws fall) is a common disease among the Negro Infants. I have already spoken of it. It is to be prevented, (for it cannot be cured)

as I directed in White Children.

The Negroes in the Southern States, it has been ~~observed~~ remarked, are more subject to Epidemics than the Whites. This depends on the quantity of Animal food they Eat, which predispose them to be more powerfully acted on by Morbid exhalations. The Jail fever prevails much among them. Negroes are also subject to most of the diseases of Whites, or Cholera, Dysentery, Yellow Fever: they are more difficult of Cure than Whites & the Yellow fever is always more fatal among them. According to Mr Wardell who travelled thro' the West Indies, Negroes are never cured by Animal Magnetism, nor has it any effect on them; the Reason is obvious, they have no Wills of their own, & the only effect the Remedy can have, must be thro' the medium of the Mind; all the Faculties of which are enfeeb'd in his perfection by Negroes, than in Freemen.

We proceed next Gentlemen to Consider the diseases peculiar to Olde Age. (For Dr. Rush's excellent discourse on this Subject See his Second Volume of Medical Enquiries and Observations.

Lecture 76th

I proceed next to make a few observations on such Local Diseases, as are not the immediate objects of Surgery. Large Indolent obstructions of the Liver, Spleen, Pancreas, Omentum &c. These are the effects of disease or disorders, tho' in some Cases they exist & produce Disease. They generally succeed Intermitting fevers; & it is remarkable that they are much less frequent now than they were before the Bark was used in the Cure of those diseases: they follow also some other acute diseases, but never if the disease has been cured by copious depletion. It is remarkable that men live from 5 to 20 years with these obstructions in tolerable health: they are not however, always innocent & their cure should be attempted with Mercury, gentle purgatives, liniments &c. to restore the Circulation by stimulating the External parts; also gentle Exercise & the use of Mineral Waters. Dr M. A. P. S. has informed me of a Case cured by Bristol Waters,

Polysarcia. An excess of Fat has by some been reckoned a disease, by others, only a predisposition to disease: it may be both. When it Exists only in a moderate degree, it is Ornamental & useful: When excessive, it impedes Circulation, Respiration; is attended by an aversion to Exercise, & consequent Plethora. & here it is a Disease. Too much fat proceeds in the first place, from the intemperate use of Animal = food; hence Englishmen are most subject to it, as they eat more Animal food than any other People, especially those in the first Circles of Life. 2d. From an intemperance in Malt Liquors & Wine, from the great quantity of Nourishment they contain; Ardent Spirits bloat, they contain no Nourishment. — 3d Obesity proceeds from a Sedentary life & want of exercise. 4th From happy temper of Mind, and Quiet Conscience

The Predisposing Causes of Obesity is, Debility: & the Proximate Cause an Inability to throw off the Ingesta which accumulates in the Cells of the Cellular Texture.

The Remedies are, 1st. A vegetable diet. 2d. Acids; these act by weakening the Chylopoietic

Chylopoietic viscera. 3d Alkalis; they act by Neutralizing an Acid in the Stomach; Soap has been used for the Relief of it; it acts in this way by preventing the Evolution of too much Oil from the Blood. Dr Cullen says he has seen occasional Instances of Fat Cured by the use of all the three last Remedies. (such Alkalis & Soap.) 4th I have known Snuff cure it: it does it by insinuating itself into the Stomach & Purging; & I read a Case of a man who became fat in Consequence of leaving off the use of Snuff: he gained 30 pounds in 4 Months by Leave after leaving off the use of Snuff. 5th Exercise both of Body & Mind. is the safest & most effectual Remedy; hence we so seldom see Laborious people fat: Whoever saw a fat Sailor, a fat Soldier, or a fat Indian? these people are always exposed to Labour, & are constantly solicitous about their Subsistance, & are never fat. Whoever therefore is too Large to use this Remedy "deserves (to use the words of Dr Cullen) to be smothered in their own Grease."

<u>Symphanites</u>. A hard Elastic, Inert, Sonorous Swelling of the Belly Body; attended with Costiveness. Dr Cullen divides it into Intestinalis

and Abdominalis. I have never seen an Instance of the former. Heister in the 70th year of his age said he had seldom seen it. Where it does occur it is from an Erosion of the intestines by Worms or Vitrification, & then Air is . . . .

In some Cases the Tumor is accompanied with Dropsy, & if the Patient be tapped air rises above the water I excepted: the smell of it is very offensive. For a history of it I refer to Cullens First Lines. He supposes it incurable, especially if it be the Intestinalis. I think it proceeds from its not being properly treated in the first Stage. I believe there are, as in other diseases two States, one of great Morbid Excitement & the other of weak Morbid Excitement. Tonics have been Indiscriminately — used in both Stages. In the first Stage it is attended with a tense full Pulse, & V. S. here would probably cure it: this is even mentioned by Van Swieten as a distinguishing mark between it & Ascites, the full Pulse. 2d. Cold Drinks, may probably be useful in curing it. Dr Cullen says that these only can palliate it; if this be true, & we try it, it only leaves us where we are, & does no harm. I confess I have never seen it cured; but I have not seen a Case since I adopted this

theory of the disease; I adopted it in consequence of failure in the cure of a Case in the usual way by Tonics. Depletion by Purging Bleeding & Low diet, I doubt not will cure it in the Incipient Stage. Where the disease appears a Chronic form Tonics are to be used. –

Next of the Diseases of the Senses.

And first of Smelling.

In the first place there is an absence of Smelling, proceeding 1st. From Catarrhal fever. 2nd From Ulcers. 3rd From Palsy of the Nerves of Smelling.

The Remedies for the first are, Bleeding, Purging low diet, & Diluting Drinks. If it proceeds from ulcers then are to be healed by the application of Mercurial Ointment; or what is better, Unguent. Citrin. Calomel used Internally will greatly assist, especially if there be any suspicion of Venereal Infection. If it proceed from the 3rd cause (Palsy) Stimulating Substances are to be applied to the Nose, as Errhines, to procure a discharge of Mucus, also Vapour of hot Vinegar. Volatiles of other kinds, if from General Palsy; Electricity & General Remedies must be used. There is, in some Cases from peculiar Idiosyncrasy, a distressing Sensation at the Smell of certain Substances, as Onions, Cats &c.

This can only be Cured by a gradual accomodation to these Odors, & must be overcome by Resolution.

Next Taste. There is sometimes a total absence of taste after Fevers; but this Have never Known to be Chronic, it generally goes off as health returns. There often occurs a particular dislike for the taste of certain Substances used as Aliment; this arises sometimes from too long confinement to one particular food, as at Boarding Schools; also from Surfeits. They can only be overcome by resolution; this I know from Experience, I was Surfeited when a Child with Boiled Chestnuts, & for many years was unable to Eat, Look at, or even Touch a boiled Chestnut; Sickened at the very Smell of them; but by resolution I Conquered this Antipathy, & can now Eat a few. Some persons are afflicted with a Saline or Bitter taste in the Mouth; this is generally a Consequence of disease in the Stomach &c. it destroys the appetite for food; where this is the case it ~~destroys the appetite~~ Vomits prove effectual. Diluting drinks should be used: the Mouth should be washed often with detergent Gargles

The Sense of Touch is also exposed to diseases. 1st An excess of Sensibility to Cold & heat is a very distressing affection; it is merely a consequence of Fever, & yields to the Remedies for Fever. When it is Chronic Depletion & afterwards Tonics are to be used. Where there exists a remarkable degree of Insensibility to Cold & heat, which is Chronic, blister should be used, & friction so as to excite Pain. From a peculiar ~~Idio~~ Idiosyncrasy, I have Known a Man in one of whose fingers, Sensation was so bare, the contact of any substance, gave him almost intolerable pain. I Knew a Person in this City who, from a peculiar Idiosyncrasy, was unable to touch a Peach without the greatest pain. This could, I have no doubt have been Conquered by Resolution.

I shall now make a few observations on the means proper for preventing & Curing the morbid effects of Heat & Cold, and First of Heat. The first Caution to be used in guarding against ~~heat~~ Excessive heat is, to accomodate your dress to the weather, especially about the head, & white Clothes are worn this purpose best. 2d Never stand still in the Sun when you are warm & Skin dry; you should endeavour to excite Sweat, which by Evaporation generates Cold.

3d. Drink but little in the forenoon; the Indians who Reason upon nothing, but do everything from Experience, follow this Rule. 4th. Never drink Cold water; you will have to Repeat it much oftener than if a little warm. 5th. Exclude the heat from the houses by keeping them closed thro the day, construct houses with large Rooms. St. Pauls Church is always 8°. Cooler than any other house in London because it is so much larger. 7th. Sleep on a Large Matress, Feather Beds are much hearmer, & the larger the Matrass, the more Room you have to turn in Bed. & this we do even in Sleep, we seldom wake in the posture in which we fell asleep.

When disease is increased from ~~Sleep~~ Heat, the Remedies are, Bleeding: As the disease is one of great Indirect Debility, V. S. is to be used to Lessen it, 2d. The warm Bath; this acts as a more powerful Stimulus than the Exciting one, & so overcomes the Indirect Debility induced by it. Intense Solar heat may be greatly obviated by Ventilation with Fans &c. 4th. Stimulent Substances to the Mouth feet, Nose &c.

To prevent the morbid effects of Cold, the following Means will be found useful: 1st. A full Meal,

Strong Coffee, or a moderate draught of fermented or distilled liquors (the former to be preferred.) — 2d. To defend the feet, the part most liable to suffer from Cold, by means of Socks worn over Boots or Shoes, & if you like, wrap the Stirrups up with tow. 3d. Protect the Hands by Gloves lined with fur or flannel. 4th. The Ears by Caps of fur covering them. 5th. Avoid going near the fire when you are travelling till you arrive at the end of your Journey: This practice I am told is followed by the Canadians with advantage.

The Remedies to cure Diseases from intense Cold are, in the first place, Cold Water; it is warm when compared to the Frozen part; it is at 52° or there about, & the limb at 32°. 2d. The danger of Disease & Death from Cold has been obviated in 2 people, by applying each their feet to the others Breast, & covering themselves with a large Cloak. Mr Van Dyke was one in crossing the Susquehannah, where it is 3 miles wide; he was partaken in the River by the Ice, & was obliged to remain till in freeze sufficient by firm to bear his weight; & in this manner he prevented his own Death & that of the Ferryman, and they neither suffered in the least. 3d. Tobacco has been known to prevent the danger from Intense Cold; it was swallowed

swallowed by a Gentleman nearly frozen, & excited Nausea & Vomiting, & a consequent tearness all over the body. 4th When the Limb or part exposed becomes Gangrenous or Inflamed, the Remedies for Gangrene or Inflamation must be used.

Next of the diseases of Vision. I have spoken of Inflamation of the Eyes under the head of Ophthalmic State of Fever (Gland Vide) and shall now touch on such Local affections of the Eyes as are not the immediate objects of Surgery.

Squinting depends on a weakness of one or more of the Muscles which move the Eye: Sometimes it occurs in one, Sometimes in both Eyes. It is commonly perceived soon after Birth, & Children should then be made to look steadfastly at their Pupils in a Looking Glass placed before them a quarter of an hour 2 or 3 times a day; this has often Cured it. 2d Children should be made to Exercise their Eyes by looking at small objects, & small print. 3d It has sometimes been Cured by Bormacles, Pasteboard with small holes cut thro' the center, placed like Spectacles over the Eyes, so that the holes in the Pasteboard shall correspond to the proper situation of the Pupils; Vision is now destroyed except the Pupils be directed to these

then holes, & Children will make a great mang of parts to this opent, till they will at length succeed. 4th It has in some Cases been Cured by gentle Stimulent applications to the Muscles which move the Eyes. 5th By avoiding in Infancy to direct anything Lattrally by; Mr Westfield acquired his Squinting for which he was called Mr Squintum, by looking frequently at a Black patch placed by his mother on his Nose.

There is sometimes a Want of Vision except of objects be placed near the Eyes; Persons in this situation are said to be Near Sighted, or Myopes. All Children are in this Condition; it is Congenial, but is lost gradually as they advance in Life. 2d It has sometimes proceeded from too frequent intent viewing fine work & small objects. The Inhabitants of New Holland are said to acquire the disease by frequently closing the Eyes to prevent small Insects from getting into their Eyes: Persons who are affected thus do best in a moderate light, because in this way the Pupil is dilated; more Rays enter the Eyes, & of course a larger Image is painted on the Retina.

The Remedy is, a Concave Glass adapted to the too great Convexity of the Humors of the Eye in which this disease Consists: But often this glass has been

used a few years, it is no longer wanted, Persons generally as they grow older become better sighted.

Presbyopia is the reverse of this; here objects are seen at a preternatural distance. The Remedy is a Convex Glass adapted to the too small Convexity of the Eye. Time in some Cases Cures this disease.

. . . . . This is Blindness in strong light Bats & some Birds have it. It depends on a weakness of the Nerves of the Eye, it renders it too highly excitable. To Cure it Bark should be tried, if it fail Blood letting should be used.

Cataracts. properly come under Surgery. They consist in an Opacity of the Christalline Lens. which has been cured in some Cases by Calomel long continued, in small doses, Blisters, Electricity, and Buchan says by a Poultice of Hemlock.

I shall here add a few remarks on the proper method of preserving Eyesight. 1st. Avoid reading in too much Light, & admit the Light over your shoulder. 2d. Avoid the Light of the Sun, & avoid fire for any length of time. Horses are frequently made blind in Cities from the sudden transition from a dark Stable to the day Light. Avoid Reading Small print & other Small objects. Never Rub the Eyes while Reading —

constantly in one position; Especially avoid looking much if you Read: It is said "Nature abhors a Vacuum". It may be as properly said of Muscular Fibres, they abhor being constantly at rest; Position should therefore be changed. In searching the Face avoid Rubbing or pressing on the Eyes: Lastly, as soon as the Eyes begin to decay must immediately to Spectacles; they may afterwards laid aside, but should be had recourse to immediately.

Amaurosis, or Gutta Serena is Blindness from pressure on the Optic Nerve, or from a Palsy of the Retina, which renders this Membrane insensible to impressions. It may be known by the Immobility of the Iris. The Pupil in some cases is Dilated & in some contracted. Gutta Serena proceeds from Fever, from general Palsy, from apoplexy. — Headache, violent Coughing (in the Instance which was mentioned) caused at Night. The Cure consists in Bleeding & Cupping when Recent, also by Vomits, I have known 2 Cases cured by Emetics; low diet, Stools & Issues should be formed behind the Neck, & Electricity, Cathartics, Fumigatories, also vapours of hot Coffee very strong; vapours of Spirit of Wine. This Disease in its Commencement is certainly Curable.

Lecture 77th

Diseases of the Senses Continued

Deafness is a distressing disease; it alienates a man from all the pleasures of Conversation and Music. destroys much of his usefulness, & in some Cases is attended with a diminution of his Intellect. Its Remote Causes are Numerous, & are of 2 kinds Local & General. I shall briefly enumerate them. And First those which act thro' the medium of a part or the Whole System. 1st. Cold applied to the head after it has been heated, is a very common Cause of Deafness; it acts by exciting Congestion or Inflammation in the Brain & thus obstructs the Secretion of Wax in the Meatus Auditorius. 2d. Catarrh, this acts by an increased Secretion of Mucous in the Fauces, which stops up the Eustachian Tube. 3d. Repelled Eruptions, or a Sudden healing up of an habitual Sore or Spine &c. 4th. Cessation of a Customary evacuation, especially of bleeding Piles, or Catamenia. 5th. A diseased State of the Stomach & bowels. 6th. Costiveness. 7th. Insolations, the

a stroke of the Sun) 8th In some Cases a Salivation has cured it.

The Local Causes are, 1st A humour distilling from any part of the Organs of Hearing: Deafness often attends the Crisis of a fever from this Cause. 2d Wax in too great quantity in the Meatus Auditorius, or of too thick Consistence. 3d Tumors obstructing the Meatus Auditorius. 4th Obstruction from swelling of the Parotid glands. 5th Relaxation from the drum of the Ear. 6th A Rupture of the Drum of the Ear from very loud Sounds, of which I have Known 2 Cases, one in a Sailor from the discharge of a 24 pounder, another in an Officer at the Battle at German Town. 7th From a Palsy of the Auditory Nerve; it is from a tendency to this Palsy that old People become gradually Deaf. 8th Certain Extraneous matters obstructing the Ear, as Pease, Paint Stones, Insects, & the like. 9th & Lastly, From a dryness of the Organs of hearing. this is the principle Cause of deafness in old age.

The Practice in this disease has been Empirical, & hence it is seldom cured; the same remedies have been all used in all cases without attention to the different Causes of the Disease.

I shall notice the Remedies that are proper

when it accompanied with disease of the whole system. When it arises from Inflammation with acute pain, Vertigo, Headache &c. from whatever Causes, Bleeding Purging, Blistering Low diet, & afterwards Sternutatories & Errhines; if these fail a Salivation. I cured Deafness in a Sailor in whom all other Remedies had failed, by 6 Bleedings: In him it was accompanied with Vertigo: this is sometimes a Cause & sometimes an effect of the disease. Dr Darwin mentions its having occurred from undue effort of the Mind to perceive a Sound. I once cured it in a Lady from S. Carolina by Bleeding & Depletion. 2d When Deafness proceeds from Catarrh & obstructions of the Eustachian Tube, Bleeding Blisters, Sternutatories &c. to be used according to Circumstances; if all fail, a Salivation. 3d When from repelled Eruptions, and Sudden healing up of old Sores; it is to be Cured by restoring them if possible, & if not by exciting Artificial Sores, by Issues or Blisters. When from a Cessation of usual Evacuations by Piles or Menses, these must either be restored or Bloodletting substituted.

When from a disease of the Stomach & Bowels, this must be ascertained & the Remedies heretofore mentioned for such cases used. When from Insolation,

the Remedies for the disease produced by Constitution, should be used, & if they fail a Salivation.

When from Local Causes, the disease sometimes affects only one, & sometimes both the Ears: And in many cases the disease is produced by both general & Local Causes, & can only be cured by Remedies adapted to Each. Local Remedies must depend on the Nature of the Cause. If it depend on a humor distilling on the Organs of Hearing, astringent injections especially of Vegetable Substances should be used, as an Infusion of Galls, Bark &c. 2dly If it proceed from Wax, the Remedies are, to extract the Wax; this is done frequently by repeated Injections of warm Milk & Water, or by an Instrument for the purpose. When from Tumors in the Meatus Auditorius; Resolutent applications should be made; Also so if it proceed from Swelling in the Parotides.

When from Relaxation of the Drum of the Ear Tonic Injections should be used, Vapours impregnated with Aromatic Herbs; Also Stimulating Sounds by Voice or Noise. I have known a Soldier cured of Deafness of Very long standing from sound of Cannon. And Cases (as Dr Johnson & some others) are on record of persons being only able to hear while riding over Stones in a

Carriage, or hearing some Noises: & the Inhabitants of the Country near the Nile, are unable to hear except in the Noise made by the Cataract. Deafness from the Rupture of the Drum of the Ear is incurable. When it proceeds from a Palsy of the Nerves of hearing, Common Salt is a very excellent application to the Meatus Auditorius, also Volatile Spirits: Oil of Amber, Fumet. of Castoreum. Electricity & Cold Bath: they act by exciting Inflammation. Where there is an undue determination to the head. . . . . .

. . . . . .

When it proceeds from foreign matters in the Meatus Auditorius Externus, they must be Extracted, if Insects they are to be killed by Oil or Spirits, & then extracted. When it proceeds from a dryness of the Ear, Common Salt is the best application. Some acquainted with, or Milk & Water.

Connected with this is <u>Tinnitus Aurium</u>; A confused noise in the Ear, resembling sometimes a hearing of water, or the Report of Cannon: It proceeds from a Convulsion of the bones of the Ear. Remedies for it are the same as for Deafness from Local Causes; from some of which it often proceeds.

There is often a Periodical Deafness which comes without any apparent Cause at particular times: Sometimes at every Spring & fall, or every Dull & moist weather or dry weather; in the former case it depends on too much great moisture of the air Ear, & in the latter on the Contrary.

To obviate the return of it, the following Remedies will be found useful, 1st. Wool or Cotton kept in the External Meatus Auditorius. 2d. Keeping the head & Ears warm by means of a wig. 3d. Cold Bath. 4th Snuff has prevented it. 5th Issues behind the Ears.

To lessen Deafness when not total, the following means are useful. 1st. To turn a Deaf ear to persons Speaking, as sounds will be better received. 2d. Educating the Ears with the hand. 3d. Pressing the Ears forward in such a manner as to collect all the rays of sound. 4th. Placing a Stick between the Mouth of the Speaker, & Ear of the Deaf person. 5th. Placing the Ear on the Speakers head, since solid substances are better calculated to conduct sound. 6th. Altering the Tone of the Speakers Voice, sometimes loud & sometimes weaker; since we have before observed, that a particular cause exists which renders

Persons able to distinguish feeble Tones when they would be unable to hear louder tones.

Next to the Diseases of the Senses we proceed to Consider those of the Organs of Speech.

1st Hoarseness. This proceeds from an abscence of mucus moisture on the Larynx, & fauces, & Glottis. The Remedies are, Bran Tea, Flax seed Tea, & other demulcent mucilaginous substances; if they fail, a Blister, & Lastly a Salivation.

Paraphonia. A partial loss of Speech which renders the Patient only able to articulate by Whispering: it is a very distressing complaint; often proceeds from a Catarrh. Remedies for it are Blisters, Salivation.

Sometimes there arises a Squeaking of the Voice, from a diminution of the Vocal Glottis, or from some obstruction in the Cavity of the Larynx I have known it proceed from a Membranous Lost after Fever. Cured as Paraphonia.

Aphonia. Or a total abscence of Speech; proceeds from a palsy of the Muscles of Speech. Blisters, Electricity, & friction Cure it; Salivation. Now & then it attends the Crisis of a fever.

Stuttering. A Convulsive motion of the Muscles of Speech; but more especially the Lips. It is sometimes Innate, but frequently acquired by Imitation. & is a disease of Debility. Morbid excitement is frequently suspended it: I have known many instances of this, but Patients are again affected as they recover: It is a sign of returning health in Stuttering Patients; this shews the propriety of Stimuli after depletion in the Cure of it. It is much increased by Terror & fear.. hence Children should never be terrified to Cure them of it, as is sometimes practised. —

Singing & Speaking Slowly has cured it often. The Eloquent & Reverend Mr. Roggers of N. York Stuttered to his Young, & was cured by Speaking Loud & Slowly

Stuttering is sometimes Hereditary descending from Father to Son, Persons afflicted with it are Commonly ashamed to own it, & nothing offends them more than aping them in pronunciation: Some are really quite behindered to it. I heard a Gentleman who Stuttered very much, & whose Daughter also Stuttered; he told a friend, he "wo-wo-wondered how his daugh-

ter

Daughter could have taught it. The only Exception I have known was Mr McLean, he did not seem pleased to confess it: being asked by a friend how long he had been in Town, not being able to answer "a week" replied "it will take one a month to tell you."

Lecture 71st

Local Diseases Continued

We come now to an important part of our Subject, the diseases of the Urinary organs. On which I shall deliver a few observations from Experience and ~~observation~~ Reading

Suppression of Urine.

The most frequent cause of this is, Calculus of the Kidneys or Bladder. It is accompanied with pain & a difficulty of discharging the water I shall make a few remarks on the formation of Calculi.

In the first place Calculus is an Animal matter which exists in all Animals. The greater

extrication of which, constitutes what is called the Calculus Diathesis. 2d. This Diathesis is not confined to the Human Species, but it appears in common, Dogs, Cats, Horses, Hogs, & a variety of other Animals, but in them it produces much less Inconvenience than in Man, owing to the Horizontal posture of them Animals, which occasions the Stone to sink to the Junction of the Bladder. While in Man it rests immediately over the Neck of the Bladder, & hence produces Exquisite Pain. I knew a Stone as large as a 12 pounder ball extracted from a Mare after Death, which produced disease only 3 days before her Death; & one which weighed 22 pounds 4 Pennyweight from an horse which was diseased only one Night before. 3d. Some Nations are more subject to Calculus than others: It is most common in Great Britain, Holland & France; it is a rare disease in Switzerland, Saxony, Japan or India.

4th. Not only the Kidneys, but all the Viscera, as well as the Lymphatics & bloodvessels, Glands, Bones, Cartilages, Muscles, Heart and arteries, Teeth, Tears, Saliva, Wax of the Ears, Semen, & even the pores of the Skin, have been found

affected with Calculus. 5th Women are less subject to Stone in the bladder than Men, from the more easy passage of Nuclei of the Stone, from the Shortness of the Urethra in Females. 6th Some waters are said to dispose to more to Calculus than others. & it has generally been thought that those impregnated with Calcareous Earth were more apt to produce this effect: But Haller reports that the Contrary of this is true. In S. Carolina the Inhabitants drink Calcareous water, & are very free from Calculous complaints: Perhaps the heat of the Climate prevents the Calculous Diathesis or it does the Gout in their People. Well water is known to produce it most frequently. Bruce says the people near the Nile who drink Rain water, are so free from it that it is unknown among them. but in other parts where they drink it out of wells, it is very common.

7th Some drinks are said to dispose to Stone more than others, & Malt Liquors most: Haller denies this; he says of 300 leaches of Beer drinkers which he dissected only 2 had the Stone. Those who drink every kind drinks, certainly are more disposed to it than others.

Having mentioned the predisposing Causes, — I proceed to the Remote: And first. The Nuclei of Stone consists of the component parts of the blood as Lymph & Red particles. 2d. of Pus. 3d. Mucus. 4th. Tumors in the Bladder. 5th. Abrasion of Mucus — from the Internal Coat of the Bladder leaving it bare. The 3 former are the most common Blood, Pus, Mucous.

These are Excited by violent exercise of the part, as by Riding, Contusions of the Region of the Kidneys: Fevers, this may act by promoting the effusion of Nuclei, & moreover aperts much as the exciting cause of the Deposition after the Nucleus is formed. Long Standing. hence Ramazini informs us that the attendents of the King of Spain are very subject to Stone, from being obliged to stand long in his Royal Presence.

After the Nucleus begins to increase the following circumstances influence the Growth. 1st. Long Retention of Urine with full bladder. Dr. Franklin from being inconveniently situated to discharge his Urine laid the foundation of a Stone which rendered miserable the latter part of his Life: Hence Judges, Studious men Parsons &c.

are subject to Stone. Sir Isaac Newton & Mr Law, both died with Stone, from their Study being a Stimulus which predominated over the desire to make Water. Old Men are subject to it from — their inability to discharge completely the contents of the Bladder. There are other Causes which occasion in old People. 2d. Lying on the back disposes to Calculus. Van Swieten relates a Case of Calculus from lying on the back during the healing of a fractured Leg hence Gouty people are subject to it: & hence another reason why old people & Children are subject to it. I have heard of one Case where it was Congenital. 3d. The Imperfect or partial discharge of Urine; hence a 3d. reason for its frequency in old people, who are unable to discharge the whole contents of their Bladders; — hence people should always avoid making Water in a lying posture.

The Gravel or Stone thus formed has some what different Symptoms, according as it is situated in the Kidneys, Bladder, or Ureters. 1st. When it is situated in the Kidney, there is a pain on the side affected, in the Back & Loins, & a numbness of the Lower Extremity of that side, together with a retraction of the Testicle; there is also a suspension,

* Called *Stalactites* by Chaptal.

or only a small flow of Turbid urine, or a large quantity of high coloured or Pale urine; all of which varieties I have seen. When the Stone is situated in the Ureters, there are commonly the same Symptoms but the pain is more Exquisite; accesses frequent desire to make water, & a small discharge but without much pain. When in the Bladder the Symptoms are more violent, a constant Irritation to make water; Urine discharged with difficulty, & frequent interruptions with great pain: an Itching of the Penis, & sometimes a discharge of small particles of Stone from the Bladder.

It Terminates in Ulcers, Scheirrhus, Cancer and Death.

The Pain of Stone of the Bladder has a Preeminence over all others for Intensity; nor is it confined to the Bladder, but the whole System Agonises with it.

As to the Composition of the Stone, I will mention Dr Black's opinion from his M. T. Lectures.

"The Matter of Calculus has been supposed by "some of a Gypseous nature, by others to resemble the "Calcareous Incrustations" of Vegetable & Animal Sub "stances in certain Springs; Others have supposed it

"to be a Tartarized Br. But 'tis different from all these,
"it is utterly insoluble in Acids & water, & is soluble
"in Caustic Alkali: It differs from Calcareous Earth
"& Gypsum in not Effervescing with Acids; from
"this it would be an Inflamable Matter somewhat
"similar to Metals: If heated in Close vessels, it emits
"air which appears to be Fixed air: It differs from
"the earths of the Bones, in not being convertible
"into Lime by Calcination"

Scheele has since discovered this substance to consist of an Acid.

In speaking of the Cure, I shall first mention the means of relieving a Paroxysm, & then speak of the Methods of . . . . . it from the System.

A Paroxysm or fit of the Stone is often excited by Cold Fatigue, & the usual Exciting Causes of fever in General. In the Cure of Gravel, we shall find the same Unity of disease as in other Cases, & the same Remedies are proper as in Pleurisy. When pneumonitory Symptoms are perceived Bloodletting should be used. An old Citizen of this place lived till beyond 100 Years with a Stone which he had had for the last 40 years of his life by occasional bleeding. Haller relates a similar Case in in his

℞ Emetics relieve Spasms, & in a fit of the Stone there is always more or less Spasm of the Bladder &c. R. C.

"Bibliotheca Medicinæ", of bloodletting having protracted till Extreme old age the Life of a Patient with Stone in tolerable Ease.

After a Fit is completely formed, Bleeding is the first Remedy. 2d Colonel Martin in the East Indies mentions having relieved them by a Vomit.* It is remarkable that he always discharged much Bile from his Stomach by these means. 3d Injections in the Bowels. 4th Lenient Purges, as Castor Oil Salts &c. 5th Liquid Laudanum. 6th The Warm Bath, this often acts as a Charm in delivering a Pit of the Stone. 7th Demulcent drinks. 8th An Opium to the Perinæum or Pubis or what is better a Cataplasm.

To prevent a returne of terminate the disease certain Medicines denominated Lithontriptics have been used: the best of these are the Sulphuric & Carbonic Acids with Water; Soap & Water, Alkali; Certain vegetable Astringents, as Uva Ursi & others: these have been supposed to dissolve the Stone, but this is not the Mode of their Action: From the Experiments of Lempriere, it appears that the Calculus remains in the . . . . . in all the Cases where these Medicines have given relief. Alkaline Salts & Soap, probably act by neutralizing an Acid in the Stomach: Uva Ursi & other

Vegetable Astringents act as Tonics by obviating Debility which invites morbid action to the Bladder. They may also act by their superior Stimulus, destroying the Sensibility of the Bladder, & never by dissolving it. A 2d Remedy to obviate it & prevent a returning Paroxysm is, the Cold Bath to the external Region of the Kidneys. In the Transactions of the College of Physicians, there are some Cases where the application of cold water was used with great advantage. Frictions to the part are useful. 3d Gentle Exercise more especially such as acts on the Kidneys as riding in a Carriage playing at bowls &c. 4th Drinking much water is very useful: it has been recommended to have Green Tea with it, but this I think only acts by rendering the drink more agreeable: the water probably acts by lessening the Acrimony of the Urine. A diet of Sugar is of great use: Blackberry ... has been recommended: Dr Franklin considered it merely as a Vehicle for the Sugar: he found ℥i of Sugar boiled in ½ pint of water, & taken before he went to bed very useful in giving him ease & rest. 6th Avoiding all the Exciting Causes that have been mentioned, as riding over rough Roads, on horse back &c. Cold, Fatigue, & in short all the Exciting Causes ~~which~~ have been of Power

in general.

Ischuria, or a difficulty of passing Urine may proceed from other Causes than Stone. 1st An Engorgement of the Kidneys which Stock notice occurs in Small Pox Malignant fevers &c. Bleeding should be very Copious for the Cure of it; also Cold bir, perhaps the manner in which Sydenham directs it is best by leaving patients to sit upon Beds & exposed to Cold air. 2d An obstruction may occur from pressure of adjoining parts; hence in Cholic it very frequently occurs from pressure of the Intestines on the Kidneys & Ureters. The remedies here are Purges & Anthes are Calculated to carry off Cholic: purges may be aided by bleeding if indicated. In some Cases the Ureters are obstructed by effused Lymph; these are to be cured by the by the Remedies mentioned, where it proceeds from Calculus.

When Ischuria depends on disease of the Bladder, it proceeds 1st from Stone or Gravel. 2d From pressure of adjoining parts on the bladder, as the Rectum over distended with Feces, also Piles or the tumors of them, here they must be cured by Ligature. When from obstruction by unperforated Hymen, this is to be relieved by puncturing, & has been cured thus. When from pressure of the Uterus during pregnancy, the Bowels

Bowels should be kept gently open &c.

3d It sometimes arises from Inflammation of the bladder, this is known by other Symptoms, as tense pulse &c. Bleeding here must be very copious, also Glysters Purges &c. & if these fail, the Catheter. 4th It may proceed from a Spasm of the neck of the bladder & this Spasm may be Local, or a Symptom of General affection of the whole System, as in Tetanus, Hysteria &c. the yields to the Remedies proper for these, as Bleeding, Purging, warm Bath, Laudanum & Catheter. Sometimes it is only a Symptom of General fever; here the Pulse is full, tense, hard &c. as in acute diseases. The Remedies are General, if they fail, the Catheter.

There is another complaint of the Bladder.

On Involuntary discharge of Urine.

A Chronic disease for the most part affecting Old men. I have known it relieved by ½ grain of Opium & 10 of Calomel every 2 hours for a day. Dr Lettsome recommends Tinct. of Cantharides. I have once tried it in the Pensylvania Hospital & it did mischief. Warm Bath, Cold Bath, Electricity are of great service. Lastly Detention. Dr Gilchrist in the 3 Vol. of the Edinburgh Physical & Literary Essays mention 2 Cases of the good effects of the last remedies. I have

known a Lady Death in an officer during the War — from a Rupture of the Bladder by suppression of Urine & Shave Lady Rathers. Where Ischuria — proceeds from a Calculus in the Urethra, it must be Extracted. Excision may safely be used. If from Stricture the Bougies are to be used. Sometimes it occurs from Blisters; here Demulcent drinks are to be used, & Laudanum. I have never had occasion to bleed where it proceed from this Cause.

Lecture 79th

Having finished our account of the Urinary organs; the Genitals come next, and first those of Men.

Impotence, is a common one. It proceeds sometimes from a Mal Conformation of parts, & is Congenial: for the most part it is Incurable. 2d from Intemperance in Venery when young, or what is more common from Onanism. 4th From a Hypochondriac belief in an inability to procreate. —

The Remedies for Impotence which it pro-
ceeds from the 2d & 3d causes, viz. from Intemperance in
Venery, & from Onanism, must consist in absti-
nence from Venereal pleasures, with Tonic Medicines
Tonic Diet & drinks; the Cold Bath to the Penis and
Perineum; also a Liniment composed of Brandy 3
parts, Ether & Tincture of Cantharides, each one part.
this to be applied to the Penis & Perineum.

There is sometimes a Stillicidium, and
sometimes even a Profluvium of the Liquor of the Pros-
trate Glands: the Remedies are, a loose Belly; it
frequently proceeds from straining at Stool; this must
be carefully avoided, & a loose belly attended to. Cha-
lybeates, Local Cold Bath, & the Liniment just de-
scribed to the Penis & Perineum.

Seminal Weakness sometimes takes
place, a discharge of Semen Involuntarily, especi-
ally at Night & in Dreams; it is most frequent in
persons of Debauched Imaginations: But I have
seen it even, inter homines maxime casios. —
It is induced by Intemperance in Venery, but most
commonly by Onanism. I have received many
letters containing histories of it from this Source, ma
ny of them lamenting this Abominable practice.

For the many dreadful diseases produced by this vice, I refer to Dr Tissot. Dimness of Sight, Consumption, Epilepsy, Fatuity & Death. This Custom is generally acquired at an Early period of Life, especially at Boarding Schools, where Boys are obliged to sleep many together: the French method in this respect should be adopted, of making the Students sleep separate. — To prevent it Children should be carefully watched & never be allowed to sleep with Servants &c. &c. —

The Remedies for Seminal Weakness and Nocturnal Pollutions are 1st A Loose belly: Erection of Penis is often produced by presence of Bowels, & should be obviated by Laxatives. 2d A Vegetable diet; the Influence of this on the Sensual appetite I formerly mentioned. 3d In sleep lying constantly on the side; this is of great Consequence. Horace takes notice of it. "Centum Supinum", on it. 4th Light Drawers, by preventing Erections are useful. 5th Opium at bed time, by producing very sound sleep, prevents Lascivious Dreams. 6th Local Cold Bath. 7th Inst. of Cantharides I have one trial, but I think I did mischief with it, & would not recommend it. 8th A Salivation, I have heard of a well attested cure from this remedy. 9th. A Lady, Matrimony; this I

I have known persons cure & have often relieved it. — The parts acquire strength by their Natural Exercise.

The above Remedies are to be aided by Reading Moral & Religious Books, & avoiding not only obscene Conversation, but Lascivious Thoughts during the day, for Dreams always borrow their complexion from them.

Fluor of the discharge of the Female Genitals, & first of

Fluor Albus. This arises from a Turgescence & even Inflammation of the Vagina; It prostrates every sense of Delicacy, or even Modesty: It is attended by obscene Conversation & Gestures: it sometimes rises to Mania, & is often a Symptom of it from other Causes.

The Remedies are Bleeding, Purging, & Low diet; & a total separation not only from the Society but even from the sight of Men

Barrenness. The Causes of Sterility are General & Local. The General is Weakness. The Local are, Fluor Albus, Obstruction of the Menses Schirrhus Uterus, Obstructions or dropsy of the Ovaria; Intemperance in Venery. & Impure Prostituted Viscera: But it often arises where we cannot

attribute it to any of these causes: it may there proceed from too great Sensibility & Irritability of the Genital parts, & from a total absence of both. The first Cause renders persons unfruitful but from excessive Recovery: And an Instance of Sterility from the latter (a total absence of Sensibility & Irritability) occurs in those who have been long unfruitful, & who are constantly wishing for Children; their excitement is thus heated, as in those who wish to remember a Circumstance by constantly endeavouring to recollect it are sure to forget it.

Women Bred under the Influence of any Disease, as Consumption, Madness, Diseased Aneurism &c. These diseases are Commonly Suspended, & frequently Cured by it; but in many they continue thro the whole period of Pregnancy, & many are only suspended & return with Aggravation.

The Remedies for the General Causes, Tonic Medicines, Sea Bathing, Long Journeys, Cheerful Society, Exercise. Remedies for an Organic affection I mentioned formerly, such as are Capable of removing them. Where there is an excess or deficiency of Excitability, accidental Cures have been made. 1st By a fit of Sickness: Remedies of Women

women have become Mothers after an attack of the Plague, who never been Pregnant before. Here the fever probably cured by restoring the Excessive excitability; here depleting Remedies would probably succeed. 2d. Change of Climate has cured it: Many Barren women from Europe have Conceived after their arrival in America. And Ewes, Goats, Cows &c. have been performed by Dr. McCauley Breed after being removed to different Islands on the Western Coast of Scotland.

3d. A Congenital Constitution after a long separation has often proved prolific.

4th. I have known an Instance of a woman becoming Pregnant as soonas she ceased to suck her a Child.

These accidental Causes from fever may probably be successfully imitated by depleting Remedies.

Next of the Diseases of the Liver.

I have already taken treated of the Acute & Chronic Inflamation of this Viscus, - And the Obstructions Consequent to them. I Shall now take Notice of some other Phenomena observed in some Cases of diseased Liver

Hydat.

Hydatids, have been discovered on the surface of the Liver after Death. 2d I have seen a Case of Scrophula in a boy, where the liver upon dissection was found affected with Scrophulous Tumors. 3d A large Worm has been found in the liver of a Lady. See a Letter published in the Medic. Eng. & obs. of Dr Bond; but these occurrences are rare.

The Biliary Ducts are sometimes obstructed & disease produced by it. In the first place this proceeds from Spasm. 2d By pressure on the Duct by the surrounding parts as the Uterus in Pregnancy, or distention of the Bowels by gases, or Flatus as in Colic. 3d The Duct becomes obstructed by inspissated Bile. 4th From Gall Stones in the Biliary Gall Bladder. These obstructions all produce Jaundice, with uncommon Languor, an indisposition to Labour or Exercise, with Smell White Stools, pain or absence of bile, Yellow Eyes & Skin; the Skin however is sometimes Green, or of a dark Colour owing to the different Colour of the Bile.

The Remedies differ according to the Cause If it proceed from Spasm, as may be known by the Symptoms coming on & going off at intervals: Laxatives & Opiates, after which Tonics will generally

appear a cause. When it proceeds from pressure of the adjoining parts, this must be obviated by Aperients & Purges: If from Pregnancy, in addition to these, bandages should be applied so as to keep down the Uterus. If from thick Bile proceeding from weakness, stimulants, or Soap, Rubia Tinctorum: & Raw Eggs, & Mercury have effected Cures; When debility is the Cause Vomits should also be given, to shake the Gall Bladder. It frequently proceeds from Gall Stones; Boerhaave recommends in this case Water after strong purges. When Gall Stones do not obstruct the Cystic Duct, but lie at the bottom of the Gall Bladder, they produce another disease to be mentioned.

There is sometimes a total absence of the secretion of Bile: this occurs in some diseases as in Yellow fever in the worst stage. It is known by White Stools, & no change in the color of the Skin; this distinguishes it from the obstructed secretion; as no bile is secreted it cannot produce ~~the~~ Yellow Colour of the Skin. It occurs at the beginning of a fever. It may be relieved by the Remedies mentioned above.

3d There is sometimes a Preternatural —

Secretion of Bile, or a "Diarrhoea of the Liver", if I may so term it. It is known by a bitter taste in the Mouth; a sickness at Stomach, a Vomiting or Purging of Bile; headache, fever; great depression of Spirits. It occurs, 1st In warm climates & hot weather. 2d In Bilious fever. 3d In Gout. 4th In Mania. 5th In Diabetes. 6th It occurs after violent Exercise. 7th & Lastly, it occurs after violent Passions especially Anger. Horace describes an Angry Man, — "Bile turnet fever." This preternatural excretion of Bile is either acid or Choleric. In Bilious fever it is Acid; in Gout & Pursons it is Choleric. Many people keep half their lives with it, especially in hot climates; they are said to be Bilious. Mismata has a great influence in exciting this secretion. Where it occurs in Diabetes or Gout, a Salivation is the remedy. It is increased by all the exciting causes of disease.

Remedies are, gentle Purges, occasional Vomits, Blisters & afterwards Cold Bath & other tonics: above all Change of Climate. When from Bilious fever or Gout, Remedies same as for the Cure of other diseases formerly mentioned.

When persons live in a Country where the air is contaminated with Miasmata; Purges should be administered, but they rather relieve than Cure. Tonics must be added, & such persons need or have a Tonic or bitter or Purgative power, or Rhubarb & Calomel may be used with it, to assist its action; Blisters & Salivation should be also used; & all the exciting Causes of fever should be avoided. A proper diet of Vegetables, Change of Climate & Exercise.

Sometimes the Liver discharges an Preternatural quantity of a pale Liquor like Water. A Mr Fuller who died not long ago in this City, was affected with it; & had Colic very frequently, every 2 or 3 weeks for many years. He generally discharged during his colic, a quantity of this fluid by Vomit. It was supposed to be owing to a ruptured Lymphatic in the Stomach. On dissection however Dr Physick & myself, on opening the Gallbladder found it filled with a fluid ~~similar~~ precisely similar to that he puked up; which distended in both of its Sources; & there were in the Gall bladder, 4 large Gallstones; there had prol

polished themselves by frequent friction in the Gall bladder, & he must have had them near 40 years.

There are a few Gentlemen of the most frequent local diseases; but I have not time to consider the Whole of them for they are very numerous; before I conclude, however, I shall make a few observations on one or two more.

Burns are sometimes a very chittesing disease. When they occasion much fever, Blood letting & Cold water should be used; Cooler to the Injured part is also of great use. Ointment made of White Lead & Lard is very useful; also the Unguentum Stramonium.

The Joints are affected with a disease call'd White Swelling: This is a thickening of the capsular Ligament, accompanied with Immobility of the Joint. The Knee is principally subject to it

Amputation is commonly necessary; but from my own Experience, I can say that Blisters to the part in its forming State, will effect a Cure, and prevent the necessity for this. The

The whole Surgeon should be kept constantly sore.

Goître is another Local Disease; it has lately appeared in this Country, & of course becomes an object of Medical Investigation. For an account of it, I beg leave to refer to a Treatise by Dr Barton; & Strictures on it by Dr Caldwell.

Lecture 20th

Valedictory

Gentlemen,

Hitherto I have endeavoured to Teach you to Cure Diseases; but this forms a part only of the Business of a Physician: — His Divine duty is more extensive, to lessen Human Misery; not only in Preserving Health & prolonging Life, & thereby preventing the pain and Misery that attends the untimely Separation

of Friends & Connections, but he should be able to relieve or abate the Pain that attends the passage out of Life.

Death & Pain are not immutably and necessarily Connected.

There is no Pain where it occurs from Old age in Man or other Animals

The Subject is new, but it is not therefore the less interesting to Humanity.

The Powers of the Mind & Sensibility are much increased at the approach of Death. Stimuli which in health occasion no uneasiness, now produce great Pain. Light, Sound, the footsteps of attendants, or even the gentle hand of a Friend, raised perhaps to wipe the Sweat of Death from his Forehead, now excites the most exquisite Torture.

The faculties of the Mind are much increased in Pow; hence the last Farewell Squeeze of the hand, & the Parting Kiss are accompanied with great & uncommon Eloquence. I have taken notice of this fact formerly, in an Enquiry into the Physical Causes on the Morals. I am not singular in remarking the uncommon elevation of the

Understanding at this Period: It has sometimes been said to amount to a foresight into Futurity. Xenophon makes Cyrus declare that, "The Mind of Man at the hour of Death, appears most divine, & then foresees something of future Events." — Homer makes Patroclus predict the Death of Hector; & Hector in his last moments foretells the fate of his Conqueror Achilles.

It is on his Death Bed that the Patriarch Jacob foresees the future Conduct & fortunes of his Sons.

This observation did not escape Shakespeare in his Henry 4th he makes one of his heroes in his last moments exclaim

"Oh Sacred Prophecy,
"But that the Earthy & cold hand of Death
"Lies on my Tongue."

The inference from these Quotations is, that Patients should not be disturbed in their last moments; Not a word should be spoken of their Interment, till a considerable time after all signs of Life have disappeared

Before I proceed to mention the Remedies

Remedies proper to relieve the Pains of Death, I shall mention & decide on a Question proposed by Lord Bacon, to Physicians. "Is it proper in Incurable diseases, to lessen the Protracted pain of Dying by suddenly destroying Life?" I answer by no means, & for the following Reasons. 1st We are, as yet, unacquainted with the Limits of our Art, and are unable to ascertain exactly what diseases are, & which are not, Incurable. Had the practice decided to, been adopted a Century ago, many would have been destroyed by diseases, which, since that time, dexterity in the application of Reason to Medicine has taught us to Cure. The Venereal Disease & Dropsy & the . . . . . been then thought as Incurable as Cancer and Epilepsy are now. But further, we are as yet ignorant of the time which divides Life from Death: how many have been restored to life after apparent Death from Submersion in Water, by Cold, Lightning & other Casuals Accidents: But we have seen in Fevers, Recovery after almost every vital action had Ceased, as the Pulse, Respiration, heat &c. In Consequence therefore, of our Ignorance where Life ends, Science revolts at the Proposition, as it imposes restraints on . . . . . .

2d. I object to it from the desire of Life so inseparable from this State of Animal Existence. Persons in the last extremity of the Colic or Stone, do not call on Death, but submit with fortitude, to tedious & painful Operations for their Cure. — For these Reasons I object to the Proposal of Lord Bacon, alike contrary to Religion & Humanity. — It originated in the weakness of human Philosophy.

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What Precious Balm belongs exclusively to Christianity.

I have hitherto pre mentioned that there are certain States of the body which prevent pain, & render the System more sensible to it. This I observed occurs in two different States of the System: One from weakness, whereby the sensibility is much increased, occurs after Inanition from Loss of blood, Poison or other Stimuli; & the other from distention or a certain fullness of the bloodvessels, which is equally favorable to Insection.

I shall mention the Remedies proper to destroy these States of the System. When it depends on a certain Tension, & fullness of the Vessels (as ex

as explained at a former Lecture) Bloodletting is the most effectual & agreeable mode of relieving it. The good effects of it have been a thousand times experienced, in persons with Incurable disease, in preventing Delirium, Coma, Convulsions &c. It has been long used to relieve the difficulty of Breathing & Cough, which so often occurs in the last stages of Pulmonary Consumption, & which form the most distressing symptoms of this disease: But we limit its use in prescribing it only in this one disease, its efficacy is equal in many other diseases Cases. 2d Abstinence, this acts Indirectly & slowly as Bloodletting by lessening the quantity of fluids. I mentioned formerly a Part of a Man in Flanders, who prevented pain from the Fracture of the Rack, by Fasting 2 or 3 days before. To be effectual in preventing pain it should be continued till the excitability of the System, as well as the Excitement, is Exhausted. This can not be done in Acute diseases, & is very tedious in Chronic ones. Bleeding is a more simple and agreeable Remedy.

3d Blisters, by exciting pain in Superficial Parts, they remove it from Such as are more intense & deep seated, especially in Cases

of excitement of the Brain & other vital parts, & also in cases of weak morbid action elsewhere, just before dissolution.

II. When there is an Increase of Sensibility to pain from Weakness, from Inanition, or, in other words in Cases of painful morbid action in direct debility, the first Remedy is Concentrated Meat & drinks.

A Morbid appetite I have before observed, occurs frequently just before Death from Yellow fever. It should always be gratified. A Mr. ..... who died of this disease in 1762, ate heartily of Beefsteaks just before he died. The Stimulus here of the pleasure of taste, counteracts for a while, pain, in a feeble degree: Aliment & Wine too, act on the Stomach, by Equalizing Excitement, abstracting it from other parts. Who has not seen a headache cured by a full meal? But Qr. Opium; it will be needless for me here to repeat the praises of this Invaluable Medicine. It acts as Pheu often does said, particularly on the Brain, invigorating the Mind, & thro' its mediums on the Body, diminishing the force of the moving Fibre &c. but it need not be given to produce

Sleep; all its good effects can be attained by giving it in small & repeated doses: It may be given to prevent Coma & Delirium, & to preserve a Patients Reason to the last moments, to have an hour of that blessing may be of incalculable importance in a future world. In Pulmonary Consumption it is given to ~~soo~~ smoothe the passage out of life: But we limit its use in confining it to this one disease; its efficacy is as great in Cancer, Tetanus, Asthma, Hypochondriasis, & Mania. 3d. The Warm Bath, acts in the same way when it can be used; but it seldom can in the last stage of Chronic disease. 4th Sweet oil, - The body anointed with oil relieves pain, & has been found to compose irregular precipital motions; it may be applied to the whole or a part of the body. For upon the Jewish Priests at the use of it in the New Testament. "Is any sick among you, let him go to the Elders of the Church, & they shall anoint him with oil &c.&c. I mentioned formerly that Pizo takes notice of a custom among the Inhabitants of South America, of anointing with oil to lessen the pain of Malign and Fever, after depletion has

has been used: whatever be the efficacy of Sweet-oil, I fancy cant fail to be useful. 5th. Pain may be much lessened by lying on the back: Patients in Extreme weakness always choose this posture for themselves, & I have known instances of Death suddenly induced by turning the patient to one side: In a Girl who was much reduced by ... Fever, I saw this disagreeable accident, which she had probably strength enough to have lasted for hours, or perhaps to have counteracted her other disease. Many instances of Death in Patients, from rising to a Close stool, Chair, or even sitting up in bed, which might other wise have terminated in a Recovery. 6th. Death makes its first attack on the Extremities, & the first sign of it is, a Coldness of the hands & feet: this should always be remedied by hot Bricks or hot water, by this means, Death may be kept at Bay for hours or days, when it proceeds from a deficiency of Excitement

7th. Never leave a patient alone in his last hour; it is from this desertion of friends & Relatives, that Death from Yellow fever drives its peculiar horror. These absurd prejudices should be

Eradicated from this Country, & so prevent all Sense of Humanity, from being banished from the United States. Man is naturally a Timorous . . . . . Lewis the 14th the French Monarch being surrounded by his Courtiers on his Death Bed, declared that "it was not so difficult a thing to Die as he had expected. All men die with fortitude says Voltaire (who gives this account of Lewis's Death) who die in Company. Soldiers & Criminals betray few marks of fear at the approach of Death from the Company of Numerous Crowds of Spectators present at their Exit.

Music has often proved useful to Rally the Courage of persons about to die: the receiving a light composition, to persuade or a News paper &c are proper to persons who refuse to admit the consolations of Religion: All Mechanical impressions however in the Exquisitely Sensible State of the Sense of hearing should be prohibited; they produce not only pain, but often Convulsions.

8th Hope of Recovery should never be suddenly abstracted from a Patient, but in the most gradual manner possible; & should never come from a Physician, but be left to the direction

of the Friends of the Patient, who should by degrees mention the danger.

6th Dying Patients should be supported by the Consolation of Religion. The pleasures derived from Christianity, triumph over exquisite Bodily Pain. Martyrs have declared amidst flames of fire, that they felt no pain. This Insensibility has been ascribed to a Miracle; but I formerly explained it on Physical principles. There can exist but one sensation in a part at one time; the power of the stimulus of hopes of future Glory, overcome in them Sensations, the less powerful impressions of the fire: here is one great use of the Christian Religion, to destroy the fear of Death.

Fear is a Pagan Error. A Good man should Contemplate Death as a pleasant Journey. David appears to have been divested of all fear of Death. "Yea I walk thro' the Valley of the shadow of Death yet will I fear not &c." Take notice Gentlemen he compares Death here to a walk thro' a Pleasant Valley, & the obstructions he met with a mere "Shadow."

I shall make no apology for doing this act of homage to the Christian Religion; A Phy

sician

A Physician should derive his Materia Medica not only from every Kingdom of Nature; but from the Kingdom of Heaven ~~also~~ itself! –

To smooth the passage out of Life 10th & lastly. I have hereto fore ~~observed~~ often observed that Life lingers last at the Ears in Death from Cold, Asphixia &c. hearing remains after all the other Senses, therefore the Room in which a person has died, should be left by all surviving Friends & Relations as soon as the Breath has left his Body, lest the Exclamation of grief should give Pain. Not a word should be said of Interment till several hours after the Death of the Patient. I have heard of a well attested Instance where a neglect of this Caution, & a sudden exclamation of a friend after all signs of life had ~~ceased~~ ceased, produced such signs of life in the Body, & thus caused the anguish of a second passage out of it.

This is a Subject that will admit of much improvement; but in Realizing it you will meet with much opposition, from an Idea that persons with Incurable diseases

Must not be Fortified with Medicines: But I believe only one of the Remedies I have mentioned is Calculated to give Pain: Blisters, & they are useful in abstracting it from more vital & Sensible parts, to the Skin. I have often Lamented the limited State of the funds of our Hospital which obliges us to require admittance to Patients with Incurable diseases. In a more improved State of Science & humanity the world will See Hospitals Erected & endowed for the exclusive purpose of relieving the miseries attending the last Stages of disease, as they now are for the Benevolent purpose of preventing. This Species of Charity will be preminent over every other, in as much as the objects of it will never reward us either with fame or Praise, all our reward will depend on the applause of our own Consciences

Here these Gentlemen we Close our Labours for the present year: Permit me before we part, to make a few observations to you on the means of procuring Professional Character & Business; & the Causes of the Loss of both.

This cannot fail of being Interesting to you, more especially to Such as intend entering on this mode of Life as soon as you quit the Ut University.

In treating the first Subject, I shall mention first the Means of acquiring business which are Honorable. 2d Such as are accidental, or Artificial: and Lastly, Such as are Dishonorable.

In treating of the Causes of the loss of Business, I shall notice, 1st Such as are just; 2d Such as are Unjust.

The Honorable Means of acquiring business, are, 1st Close application to Study & business. 2d Great Punctuality & Regularity in attending to business. 3d Civil behaviour to every body. 4th Sympathy with the Sick. 5th Attention to the Poor: this has often Introduced Physicians to Notice & practice, Boerhaave, Sydenham &c, Fothergill & Cullen. all rose to Eminence in their profession by attending to the Poor. 6th Great attention to your Person & Dress: Cleanlyness is of the greatest importance.

I heard a Physician attribute his business to nothing else but this.

8th. Cures made of difficult diseases; in this way many young Physicians have supplanted old ones, especially if the cure be performed by simple Medicines.

9th. Writing & Publishing a Book on a new, Interesting & Popular Subject: Many Physicians have thus succeeded in writing themselves into business. Dr Fothergill acquired all his Practice, & much of his Reputation by Publishing his Treatise on Ulcerous Sore throat. Dr Colghoun was sent for by many families in Dublin, after publishing his Work on the Diseases of Minorca. Dr Millman gained much business by his Book on Scurvy.

II. Artificial or accidental Means. 1st. The Patronage of one or more Powerful Families. 2d. The Patronage of a Political Party. 3d. The Patronage of a Religious Society: Dr Mead owed much business & Reputation to his being a Member of a Dissenting Congregation, of which his Father was Minister. (When the Dr was

called out of Church to visit a Patient, the Father publicly offered Prayer for their recovery.)

4th Affectation in Manner, Dresses, Diet, &c. has often given Business to Physicians, diet especially. Dr Wallace a Surgeon in the Army, a young Man procured much Business by eating Vegetables only; he was distinguished from a Nonconformist, also a Physician, by the Title of "Vegetable Wallace!" There was formerly a Physician at New Castle, who visited his Patients at a great distance on foot, & thus procured much Business.

6th Boasting of the number & rank of Patients has often procured Business.

7th Profane Swearing; this is too common among Physicians, but many have acquired business by it; Dr Gorrie, Dr Magrath, & Dr Chorrett all owed business & Reputation to their proficiency in this Profane Art.

8th Attending Card & Tea Parties among people of Consequence.

9th Riding or walking about the Town with out any object in great haste, so as to give people an Idea of your great Business; about

Streets Allies &c. A Physician in this City endeavoured to procure practice by this means, he was followed by a Gentleman up one Street & down another, till at length he ended his long protracted & circuitous Rout without stopping at a single house.

10th. Accidental cures performed particularly of Worms.

11th. An Opinion accidentally true respecting the Causes of Disease. I have heard of an English Physician, who had been sent for to see a Lady with an Erysipelas in her face which had baffled the Skill of Several Physicians; he accidentally saw the Shell of a Cashew Nut as he was entering the Door, & assigned that as the Cause of it, and by removing it she was Cured. He acquired much Credit & Practice by his Discovery: This is always the Case when the Patients Sense of the Cause agrees with the one advanced by the Physician.

III. The Dishonorable Means of acquiring Practice are, 1st. By traducing the Practice of other Physicians. 2d. By traducing the Practice of young Physicians, Rivals in Practice the

the Profession. 3d. In Consultations, by a pretended sympathy with the Sick, and great fear of Danger.

4th By dividing the Profits with an Apothecary; this is much more common in Europe than here.

5th By publishing an account of Cases & Cures which have never occured or been performed.

6th By charging very low prices & thus getting Patients from older Physicians.

The Causes of the loss of business, are either just or unjust.

The Just are, Ignorance, not only of Medicine but of any common part of Education. I heard of a Physician who lost a Patient by spelling Fistula in ano with Ph, instead of F.!

2d Want of Punctuality of attendance on Patients.

3d An inattention to the uninteresting accounts Patients give of their Cases, especially Hypochondriacs. Nothing so deeply injures a Patients feelings as this kind of neglect of a Physician.

4th. A careless examination of the Symptoms, & of a Patients disease. I formerly mentioned one Instance of a Physician loosing a Patient by feel-ing his Pulse with a Glove on. We should never neglect to ask at least every circumstance of an Interesting nature: it is a frequent Cause of the loss of Business.

5th. . . . . .

6th. Repairing during the prevalence of a mortal Epidemic, to visit old Patients.

7th. Too high Charges is a very frequent cause of the loss of business.

8th. & Lastly under this head, now & then a cause of the loss of Character and business is writ-ting a trifling Piece & Publishing. But,

II. The first of the unfrequent Causes, is, the Publishing of a new discovery, or an Ingenious performance. Harvey lost all his practice by publishing his discovery of the circulation of the Blood. Sydenham was placed in the back-ground of his profession, after publishing his account of the success of Depleting Rem-edies & Cold air in the Cure of some diseases.

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But these are uncommon circumstances, and occur only when they offer violence to the received opinion of . . . . Prejudice.

2d. Neglect to enforce payment of accounts has often created Enemies. This gives us a painful Idea of human Nature; the more so when I add, that I have known an Eminent Physician, who sued some of his Patients who refused to pay, but as soon as the Law compelled them to it, they applied to him again.

3d. A sudden Rise of a Patient in affluence often prevents his sending for an old Physician, as a Change of Connections often takes place; & this is more especially the case if the Patient has at any time been an object of the Physicians Charity; his presence brings back a painful recollection of the Wooden Bed & Straw Bed when his Customary Visits were received

Such Gentlemen, is the Nature of the Profession you have Chosen; here Such the Tenure by which you are to hold your Subscriptions for Life; and it Imperfections

Imperfections depend in a great measure on the unequal distribution of Medical Knowledge. Ignorance in the People is a great foe to the advancement of our Profession: Let it be upon business to strip it of its useless Technical phrases, which, with the Ignorance part of the Profession, destroys the part of Science.

I come now Gentlemen, to discharge the only duty which I have not performed with Pleasure. The winter to me, has been a Laborious one; but you have rendered it more agreeable by the punctuality with which you have attended my labor. I part with you with great reluctance. For the first time since last November, did I enter that door with pain.

When I reflect that this is the last time I shall see many of you before we are seperated by a great distance: Perhaps by an Ocean, Never, Never more to meet; I am unable to express what I feel. I trust & Beg, you will consider me your elder Brother (in Medicine)

medicine) and continue to command my Services

I commend you to that being in whose hands is the Space of all Human Events, and thus bid you an affectionate Adieu.

J. R.

NOTES ON
RUSHE'S
LECTURES

VOL. IV